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Beaver, Table Rock, and Bull Shoals Reservoirs, Arkansas and Taneycomo Reservoir, Missouri, Benton, Carroll, Boone, Marion and Baxter Counties, Arkansas and Barry, Stone, Taney, and Ozark Counties, Missouri

National Eutrophication Survey, Las Vegas, Nev.

Prepared for

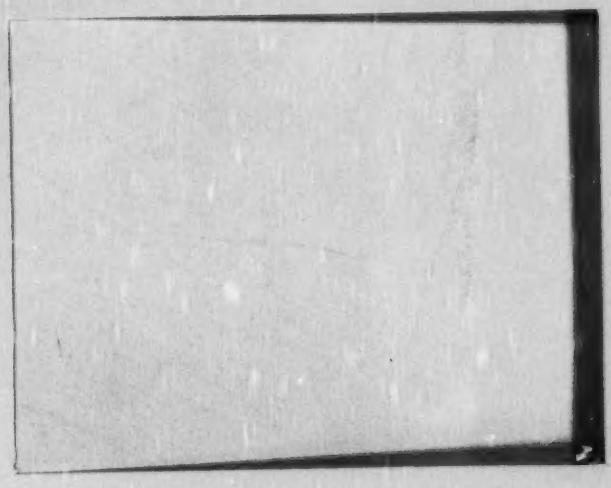
Environmental Monitoring and Support Lab., Las Vegas, Nev.

Feb 77

PB 268 362

U.S. ENVIRONMENTAL PROTECTION AGENCY
NATIONAL EUTROPHICATION SURVEY

WORKING PAPER SERIES



CORVALLIS ENVIRONMENTAL RESEARCH LABORATORY - CORVALLIS, OREGON

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REPORT

ON

BEAVER, TABLE ROCK, AND BULL SHOALS RESERVOIRS, ARKANSAS AND TANEYCOMO RESERVOIR, MISSOURI

BENTON, CARROLL, BOONE, MARION AND BAXTER COUNTIES, ARKANSAS AND BARRY, STONE, TANEY, AND OZARK COUNTIES, MISSOURI

EPA REGION VI AND VII

WORKING PAPER NO. 480

WITH THE COOPERATION OF THE

ARKANSAS DEPARTMENT OF POLLUTION CONTROL AND ECOLOGY

AND THE

MISSOURI DEPARTMENT OF NATURAL RESOURCES

AND THE

ARKANSAS AND MISSOURI NATIONAL GUARD

FEBRUARY, 1977

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16. ABSTRACT

Annual total phosphorus and total nitrogen loadings to the lake were estimated and subdivided according to either point or non-point source origin. An assessment of the lake's trophic condition and limiting nutrient is also provided. All data collected by the U.S.E.P.A. National Eutrophication Survey during the one year study of the lake and its tributaries are included in the report.

17. KEY WORDS AND DOCUMENT ANALYSIS

a. DESCRIPTORS	b. IDENTIFIERS/OPEN ENDED TERMS	c. COSATI Field/Group
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REPORT ON BEAVER, TABLE ROCK, AND BULL SHOALS RESERVOIRS, ARKANSAS AND TANEYCOMO RESERVOIR, MISSOURI

BENTON, CARROLL, BOONE, MARION AND BAXTER COUNTIES, ARKANSAS AND BARRY, STONE, TANEY, AND OZARK COUNTIES, MISSOURI

EPA REGION VI AND VII

by

National Eutrophication Survey

Water and Land Monitoring Branch
Monitoring Applications Laboratory
Environmental Monitoring & Support Laboratory
Las Vegas, Nevada

and

Eutrophication Survey Branch
Corvallis Environmental Research Laboratory
Corvallis, Oregon

Working Paper No. 480

OFFICE OF RESEARCH AND DEVELOPMENT
U.S. ENVIRONMENTAL PROTECTION AGENCY

February 1977

CONTENTS

	Page
Foreword	ii
List of Arkansas and Missouri Study Lakes	iv - v
Lake and Drainage Area Map	vi - ix
Sections	
I. Conclusions	1
II. Lake and Drainage Basin Characteristics	8
III. Lake Water Quality Summary	11
IV. Nutrient Loadings	29
V. Literature Reviewed	39
VI. Appendices	40

FOREWORD

The National Eutrophication Survey was initiated in 1972 in response to an Administration commitment to investigate the nationwide threat of accelerated eutrophication to freshwater lakes and reservoirs.

OBJECTIVES

The Survey was designed to develop, in conjunction with state environmental agencies, information on nutrient sources, concentrations, and impact on selected freshwater lakes as a basis for formulating comprehensive and coordinated national, regional, and state management practices relating to point source discharge reduction and nonpoint source pollution abatement in lake watersheds.

ANALYTIC APPROACH

The mathematical and statistical procedures selected for the Survey's eutrophication analysis are based on related concepts that:

a. A generalized representation or model relating sources, concentrations, and impacts can be constructed.

b. By applying measurements of relevant parameters associated with lake degradation, the generalized model can be transformed into an operational representation of a lake, its drainage basin, and related nutrients.

c. With such a transformation, an assessment of the potential for eutrophication control can be made.

LAKE ANALYSIS

In this report, the first stage of evaluation of lake and watershed data collected from the study lake and its drainage basin is documented. The report is formatted to provide state environmental agencies with specific information for basin planning [§303(e)], water quality criteria/standards review [§303(c)], clean lakes [§314(a,b)], and water quality monitoring [§106 and §305(b)] activities mandated by the Federal Water Pollution Control Act Amendments of 1972.

Beyond the single lake analysis, broader based correlations between nutrient concentrations (and loading) and trophic condition are being made to advance the rationale and data base for refinement of nutrient water quality criteria for the Nation's freshwater lakes. Likewise, multivariate evaluations for the relationships between land use, nutrient export, and trophic condition, by lake class or use, are being developed to assist in the formulation of planning guidelines and policies by the U.S. Environmental Protection Agency and to augment plans implementation by the states.

ACKNOWLEDGMENTS

The staff of the National Eutrophication Survey (Office of Research and Development, U.S. Environmental Protection Agency) expresses sincere appreciation to the Arkansas Department of Pollution Control and Ecology and the Missouri Department of Natural Resources for professional involvement, to the Arkansas and Missouri National Guards for conducting the tributary sampling phase of the Survey, and to those Arkansas and Missouri wastewater treatment plant operators who provided effluent samples and flow data.

The staff of the Water Division of the Arkansas Department of Pollution Control and Ecology; and the staff of the Missouri Department of Natural Resources, James Wilson, Director; the Division of Environmental Quality, Ken Karch, Director; the Water Quality Program, James Odendahl, Director, provided invaluable lake documentation and counsel during the Survey, reviewed the preliminary reports and provided critiques most useful in the preparation of the Working Paper series.

Major General Thomas C. Armstrong, the Adjutant General of Arkansas, Project Officer Colonel Lavaun M. James, who directed the volunteer efforts of the Arkansas National Guardsmen, Major General Charles M. Kiefner, the Adjutant General of Missouri, and Project Officer Captain Donald L. Wellen, who directed the volunteer efforts of the Missouri National Guardsmen, are also gratefully acknowledged for their assistance to the Survey.

NATIONAL EUTROPHICATION SURVEY

STUDY LAKES

STATE OF ARKANSAS

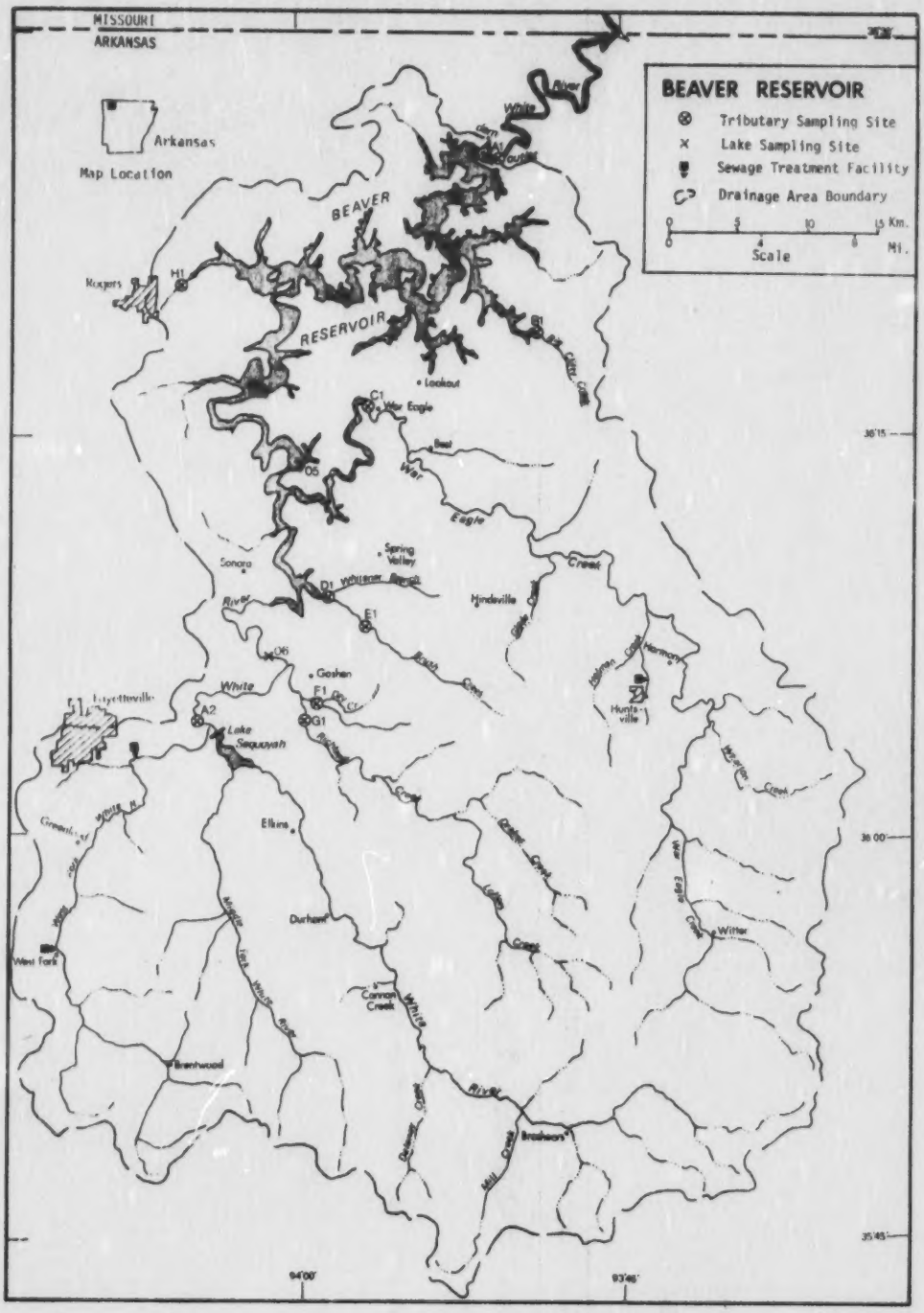
LAKE NAME	COUNTY
Beaver	Benton, Carroll, Washington
Blackfish	Crittenden, St. Francis
Blue Mountain	Logan, Yell
Bull Shoals	Baxter, Boone, Marion (Taney, Ozark in MO)
Catherine	Garland, Hot Spring
Chicot	Chicot
DeGray	Clark, Hot Spring
Erling	Lafayette
Grand	Chicot
Greer's Ferry	Van Buren, Cleburne
Hamilton	Garland
Millwood	Hempstead, Howard, Little River, Sevier
Nimrod	Perry, Yell
Norfork	Baxter, Fulton (Ozark in MO)
Ouachita	Garland, Montgomery
Table Rock	Boone, Carroll (Barry, Taney in MO)

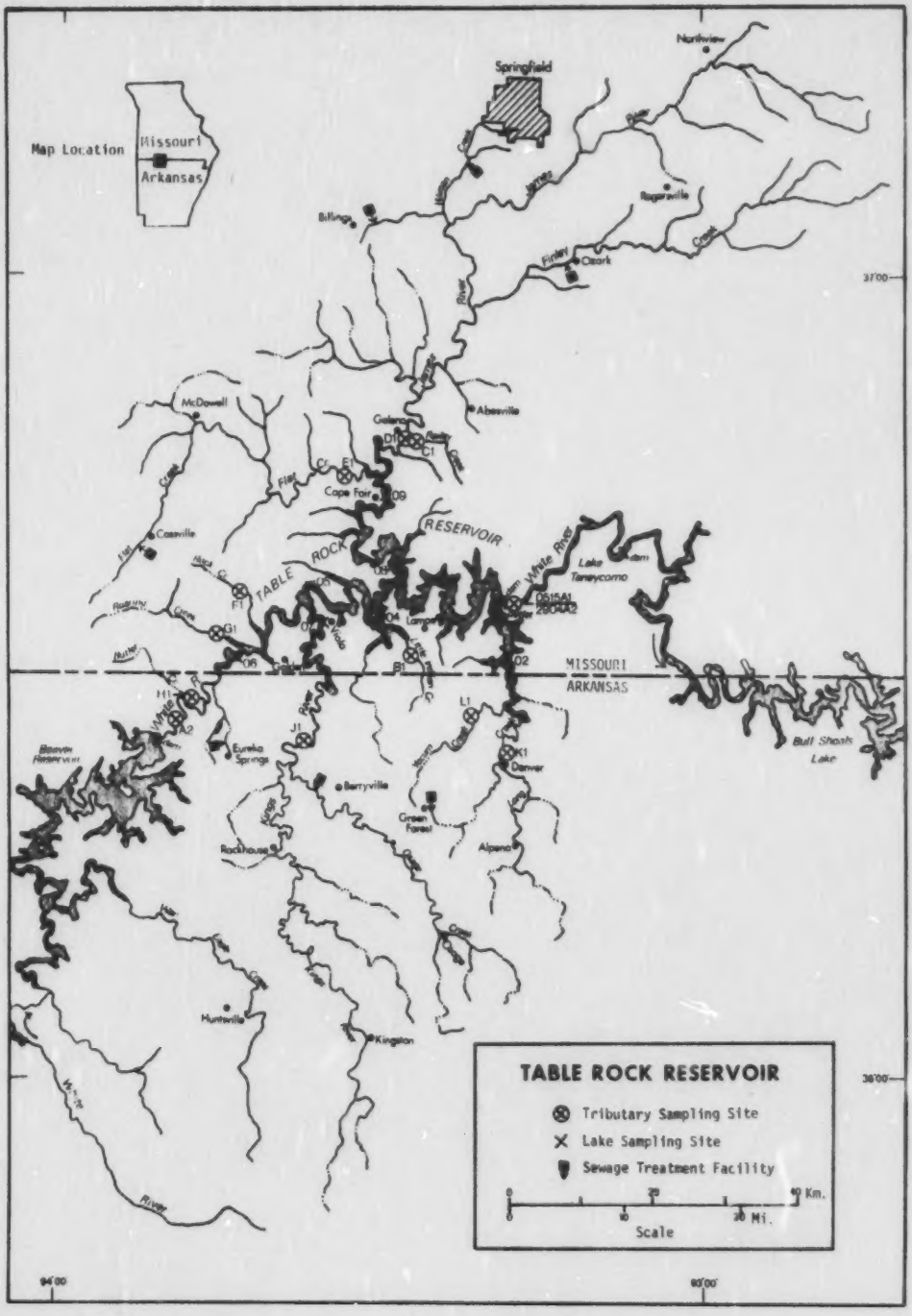
NATIONAL EUTROPHICATION SURVEY

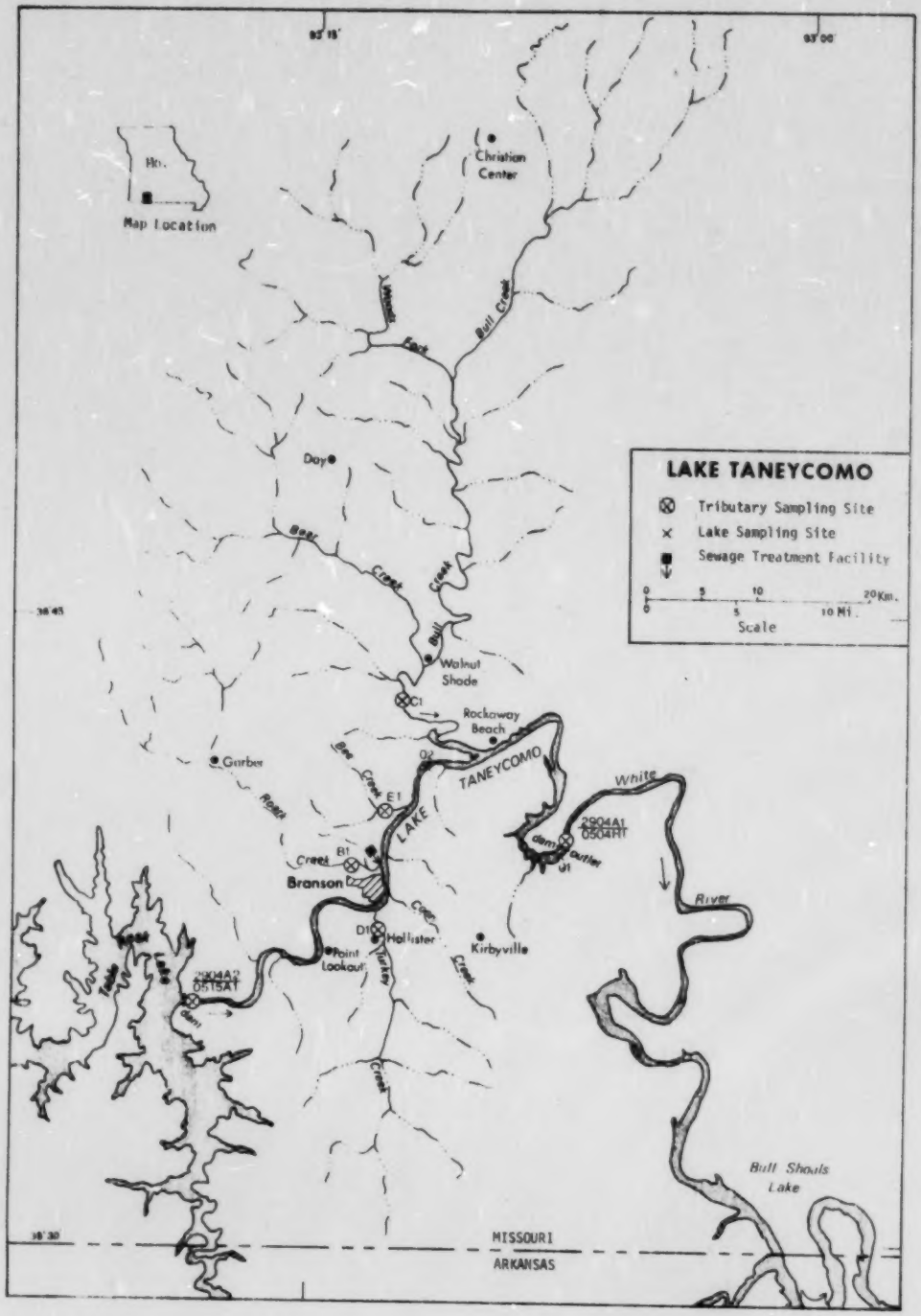
STUDY LAKES

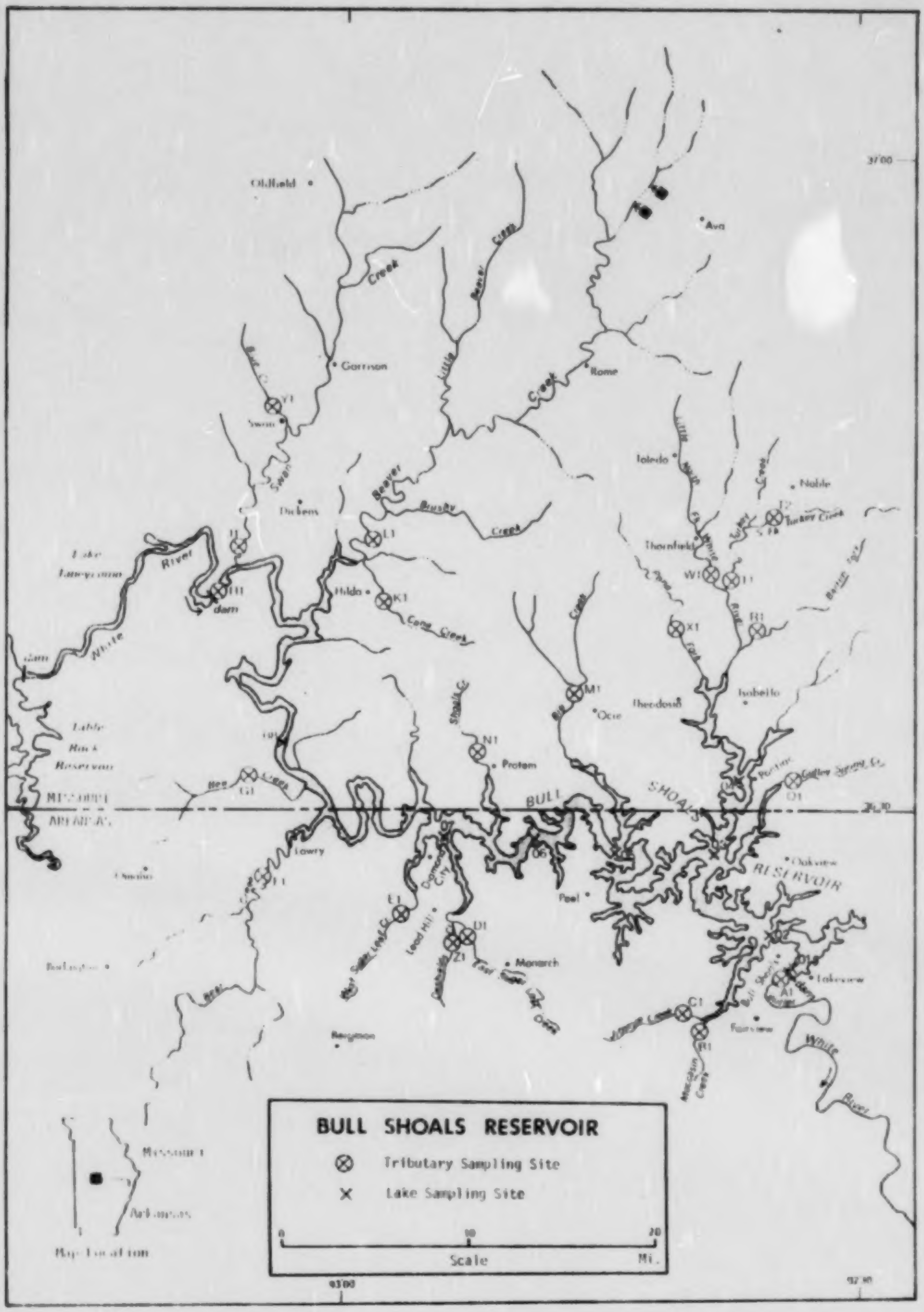
STATE OF MISSOURI

LAKE NAME	COUNTY
Clearwater Lake	Reynolds
Pomme de Terre Reservoir	Polk, Hickory
Stockton Reservoir	Dade, Polk, Cedar
Lake Taneycomo	Taney
Thomas Hill Reservoir	Macon, Randolph
Lake Wappapello	Wayne, Butler


MISSOURI
ARKANSAS
Arkansas
Map Location
BEAVER RESERVOIR
Tributary Sampling Site
Lake Sampling Site
Sewage Treatment Facility
Drainage Area Boundary
Scale
Km.
Mi.
BEAVER
RESERVOIR
Rogers
H1
A1
B1
C1
War Eagle
Lookout
O5
War
Eagle
Creek
Spring Valley
Sonora
D1
Whitener Branch
Hindsville
E1
O6
Goshen
F1
G1
A2
Lake Sequoyah
Fayetteville
White
River
Elkins
Durham
Cannon Creek
Brentwood
West Fork
Brashears
Witter
Hunts-ville
Harmony
36°15'
36°00'
35°45'
94°00'
93°45'


Map Location
Missouri
Arkansas
Springfield
Northview
Billings
Rogersville
Ozark
Finley
Creek
Abesville
McDowell
Galena
Cape Fair
Cassville
TABLE ROCK RESERVOIR
White River
Lake Taneycomo
Lamar
MISSOURI
ARKANSAS
Bull Shoals Lake
Eureka Springs
Berryville
Green Forest
Denver
Alpena
Rockhouse
Huntsville
Kingston
Beaver Reservoir
37°00'
36°00'
94°00'
93°00'
TABLE ROCK RESERVOIR
Tributary Sampling Site
Lake Sampling Site
Sewage Treatment Facility
0
20
40 Km.
0
10
20 Mi.
Scale


LAKE TANEYCOMO
Tributary Sampling Site
Lake Sampling Site
Sewage Treatment Facility
0 5 10 20 Km.
0 5 10 Mi.
Scale
Map Location
Christian Center
Bull Creek
Fork
Day
Bear Creek
Bull Creek
Walnut Shade
C1
Rockaway Beach
Garber
Bear Creek
Roark
E1
LAKE TANEYCOMO
White River
2904A1
0504H1
dam
outlet
B1
Creek
Branson
D1
Hollister
Point Lookout
Turkey Creek
Kirbyville
Creek
2904A2
0515A1
dam
Table Rock Lake
Bull Shoals Lake
MISSOURI
ARKANSAS



BULL SHOALS RESERVOIR
Tributary Sampling Site
Lake Sampling Site
0
10
20
Scale
Mi.
Oldfield
Ava
Garrison
Rome
Toledo
Noble
Dickens
Hilda
Cane Creek
Brushy Creek
Theodosia
Isabella
Protem
Lowry
Oakview
Peel
Monarch
Lakeview
Fairview
Bergman
White River
BULL SHOALS
RESERVOIR
Missouri
Arkansas
Map Location

PRELIMINARY REPORT ON
BEAVER, TABLE ROCK, AND BULL SHOALS RESERVOIRS, ARKANSAS
AND TANEYCOMO RESERVOIR, MISSOURI
STORET NOS. 0501, 0515, 0504, and 2904

I. CONCLUSIONS

A. Trophic Condition:*

On the basis of Survey data and field observations, Beaver, Table Rock, and Bull Shoals Reservoirs are considered mesotrophic. Mean total phosphorus values ranged from 0.015 mg/l - 0.022 mg/l for the three reservoirs, mean orthophosphorus levels ranged from 0.004 mg/l - 0.007 mg/l and mean total inorganic nitrogen ranged from 0.330 mg/l - 0.380 mg/l. Mean chlorophyll a values were 3.9 µg/l and 4.0 µg/l for Beaver and Bull Shoals Reservoirs, respectively. Mean chlorophyll a for Table Rock Reservoir was 9.1 µg/l, ranging from 1.5 µg/l in June to 30.9 µg/l in October. Survey limnologists reported no problem conditions in any of these three deep reservoirs.

Taneycomo Reservoir is considered eutrophic, i.e., nutrient rich and highly productive. Whether such nutrient enrichment is to be considered beneficial or deleterious is determined by its actual or potential impact upon designated beneficial uses of the lake.

*See Appendix F.

Of the six Missouri lakes sampled in 1974, three had higher total phosphorus levels than Taneycomo Reservoir (0.023 mg/l), two had higher mean inorganic nitrogen levels (0.530 mg/l), and two had higher mean orthophosphorus levels than Taneycomo Reservoir. Chlorophyll a values ranged from 0.3 µg/l in June to 36.8 µg/l in October. Survey limnologists reported floating and submerged aquatic plants heavily distributed along both shores of the reservoir and in the open water between Stations 01 and 02. An algal bloom was observed in October.

B. Rate-Limiting Nutrient:

Algal assay results indicate that all four White River impoundments are limited in primary production by available phosphorus levels. Mean inorganic nitrogen to orthophosphorus (N/P) ratios in the reservoirs were also generally indicative of phosphorus limitation.

C. Nutrient Controllability:

1. Point sources -

Point sources were estimated to be 55.9% of the total phosphorus load to Beaver Reservoir. The city of Fayetteville contributed 53.1% of the total, and the cities of West Fork and Huntsville contributed the remaining 2.8%.

Phosphorus loading (0.72 $g/m^2/yr$) to Beaver Reservoir was slightly greater than the eutrophic loading proposed by Vollenweider (1975) for lakes with such volume and retention time. Elimination of the known point sources to this reservoir would reduce phosphorus loading to below Vollenweider's oligotrophic loading. It would be desirable to reduce these point source contributions to the greatest practicable extent in order to maintain the existing good trophic condition of Beaver Reservoir.

Point sources were estimated to be 82.5% of the total phosphorus load to Table Rock Reservoir. The Springfield Southwest plant contributed 74.6% of this total, and the cities of Berryville and Green Forest contributed 4.0% and 1.8%, respectively. The remaining 2.1% was contributed from five smaller municipal plants.

There are also a number of additional municipal plants which did not participate in the Survey and are not included in the nutrient budget for the lake. These include: Kampgrounds of America (Eureka Springs), Big Bay Public Use Area, Campbell Point Public Use area Baxter Public Use Area, Highway 13 Public Use Area, Table Rock Powerhouse STP, Couchlight Mobile Home Park, Cove Motel and Lounge, Kimberly City (a complex of 20 small shops and restaurants, and one motel), Mountain Jack Restaurant, and Shellknob Estates Subdivision (U.S. EPA, 1975). Although these plants do impact Table Rock Reservoir to some degree, background tributary loadings (page 36) to the reservoir are very low and reflect no significant water quality problems. It appears that present usage of these plants does not contribute substantially to the nutrient budget of the lake, although future increased usage potentially could affect the trophic condition of the reservoir.

The phosphorus loading 1.49 $g/m^2/yr$ to Table Rock Reservoir was almost twice the proposed Vollenweider eutrophic level. Removal of 90% of the phosphorus at these point sources would reduce the loading to 0.38 $g/m^2/yr$, which is less that Vollenweider's oligotrophic level. This

reduction should result in further improvement of the water quality in Table Rock Reservoir once a new phosphorus equilibrium becomes established.

Point sources were calculated to be 6.9% of the total phosphorus load to Taneycomo Reservoir. The city of Branson contributed this entire point source load. The Shepherd of the Hills Fish Hatchery discharges to the White River at Table Rock Reservoir Dam; however, nutrient contributions from this source are not known.

The present Taneycomo phosphorus loading of 6.07 $g/m^2/yr$ is approximately twice that proposed by Vollenweider. However, Vollenweider's model may not be applicable to lakes with short hydraulic retention times (seven days for Teneycomo Reservoir). Although reduction of loading from the Branson plant would not in itself be expected to result in water quality improvement in the reservoir, phosphorus control of the point sources directly impacting the two upstream White River impoundments would likely improve trophic conditions in Lake Taneycomo.

Point sources directly contributed only 1.4% of the total phosphorus load from Bull Shoals Reservoir. The city of Ava contributed this entire load. Phosphorus

loading from the reservoir is slightly greater than the proposed Vollenweider oligotrophic level, but less than his eutrophic level.

2. Nonpoint sources -

Nonpoint sources were calculated to contribute 44.1% and 17.5% of the total phosphorus loads to Beaver and Table Rock Reservoirs, respectively, and 93.1% and 98.6% of the respective totals to Taneycomo and Bull Shoals Reservoirs. Ungaged drainage areas ranged from 0.4% to 8.8% of all reservoir total phosphorus loads.

The total nonpoint loading values for the White River are misleading, since point source contributions in each reservoir are contained in the White River "nonpoint" loadings for the reservoirs downstream. Substantial reductions in the point sources impacting all four White River impoundments are needed if future deterioration of existing reservoir trophic states is to be prevented.

The nonpoint phosphorus exports of the tributaries other than the White River impacting these reservoirs were generally low (page 36), ranging from 9-15 kg/km^2/yr for Beaver Reservoir, and from 1-4 kg/km^2/yr for Table Rock, Taneycomo, and Bull Shoals Reservoirs. These

exports are all comparable to tributary exports from nearby Norfork Lake (range of 1-6 kg/km^2/yr) (NES Working Paper No. 491).

II. LAKE AND DRAINAGE BASIN CHARACTERISTICS

Lake and drainage basin characteristics are itemized below. Lake morphometry was provided by the Arkansas Department of Pollution Control and Ecology and by the Missouri Cleanwater Commission. Tributary flow data were provided by the Arkansas and Missouri District Offices of the U.S. Geological Survey (USGS). Outlet drainage areas include the lakes surface areas. Mean hydraulic retention times were obtained by dividing the lake volumes by mean flows of the outlets. Precipitation values are estimated by methods as outlined in the National Eutrophication Survey (NES) Working Paper No. 175. A table of metric/English conversions is included as Appendix A.

A. Lake Morphometry:

		Beaver	Table Rock	
1.	Surface area:	114.20	174.42	km^2.
2.	Mean depth:	17.8	19.1	meters.
3.	Maximum depth:	62.8	67.1	meters.
4.	Volume:	2,037.726	3,332.890	x 10^6 m^3.
5.	Mean hydraulic retention time:	556 (1.5 yr)	330	days.

		Taneycomo	Bull Shoals	
1.	Surface area:	12.22	183.89	km^2.
2.	Mean depth:	5.8	20.4	meters.
3.	Maximum depth:	17.4	62.2	meters.
4.	Volume:	70.876	3,759.678	x 10^6 m^3.
5.	Mean hydraulic retention time:	7	259	days.

B. Tributary and Outlet (see Appendix B for flow data):

1. Tributaries -

Beaver Reservoir			Table Rock Reservoir		
Name	Drainage area (km^2)	Mean flow (m^3/sec)	Name	Drainage area (km^2)	Mean flow (m^3/sec)
A-2 White River	1,036.0	14.75	A-2 White River	3,071.7	42.36
C-1 War Eagle Creek	802.9	10.88	B-1 Little Indian Creek	49.2	0.27
D-1 Whitener Branch	39.9	0.52	C-1 Railey Creek	36.3	0.19
E-1 Brush Creek	51.8	0.68	D-1 James River	2,556.3	25.99
G-1 Richland Creek	318.6	4.27	E-1 Flat Creek	740.7	5.77
			F-1 Rock Creek	77.7	0.45
			G-1 Roaring River	155.4	0.99
			H-1 Butler Creek	62.2	0.35
			J-1 Kings River	1,377.9	15.79
			K-1 Long Creek	440.3	3.22
			L-1 Yokum Creek	165.8	1.05
Minor tributaries and immediate drainage -	723.9	11.35	Minor tributaries and immediate drainage -	1,503.9	18.37
Total	2,973.1	42.45	Total	10,237.4	114.80
2. Outlet - A-1 White River	3,087.3	42.35	Outlet - A-1 White River	10,411.8	116.98

C. Precipitation:

1. Year of sampling: 148.1 cm.	Year of sampling: 128.9 cm.
2. Mean annual: 147.1 cm.	Mean annual: 106.1 cm.

B. Tributary and Outlet (see Appendix B for flow data) (continued)·

1. Tributaries -

Taneycomo Reservoir			Bull Shoals Reservoir		
Name	Drainage area (km^2)	Mean flow (m^3/sec)	Name	Drainage area (km^2)	Mean flow (m^3/sec)
A-2 White River	10,417.0	116.98	D-1 East Sugar Loaf Creek	77.2	0.71
B-1 Roark Creek	98.4	0.58	E-1 West Sugar Loaf Creek	68.9	0.64
C-1 Bull Creek	523.2	3.88	F-1 Bear Creek	344.5	3.23
D-1 Turkey Creek	88.1	0.51	G-1 Bee Creek	76.7	0.69
			H-1 Lake Taneycomo (White River)	11,297.6	123.52
			J-1 Swan Creek	440.3	4.97
			L-1 Beaver Creek	924.6	8.25
			M-1 Big Creek	113.4	1.07
			Q-1 Gully Spring Creek	29.8	0.24
			R-1 Barren Fork	111.4	1.05
			T-1 Turkey Creek	93.3	0.87
			W-1 North Fork White River	161.4	1.60
			X-1 Pond Fork	83.7	0.76
Minor tributaries and immediate drainage -	158.7	1.86	Minor tributaries and immediate drainage -	1,665.1	17.44
Total	11,285.4	123.81	Total	15,488.4	165.04
2. Outlet - A-1 White River	11,297.6	123.49	Outlet - A-1 White River	15,672.1	168.02

C. Precipitation:

1. Year of sampling: 129.7 cm.
2. Mean annual: 106.8 cm.

Year of sampling: 150.9 cm.
Mean annual: 148.8 cm.

III. LAKE WATER QUALITY SUMMARY

Beaver, Table Rock, Taneycomo, and Bull Shoals Reservoirs were sampled four times during the open-water season of 1974 by means of a pontoon-equipped Huey helicopter. Each time, samples for physical and chemical parameters were collected from the six, nine, two, and eight stations, respectively, on the lakes and from a number of depths at each station (see maps, pages vi-ix). During each visit, depth-integrated samples were collected from each station for chlorophyll a analysis and phtoplankton identification and enumeration. During the first and last visits, 18.9-liter depth-integrated samples were composited for algal assays. Maximum depths sampled were:

Beaver		Table Rock		Taneycomo		Bull Shoals	
Station Number	Depth	Station Number	Depth	Station Number	Depth	Station Number	Depth
01	61.0 m	01	61.0 m	01	12.8 m	01	57.9 m
02	49.1 m	02	33.8 m	02	10.4 m	02	56.7 m
03	36.9 m	03	53.3 m			03	49.1 m
04	29.3 m	04	39.6 m			04	32.6 m
05	19.2 m	05	32.3 m			05	48.8 m
06	14.6 m	06	18.0 m			06	45.7 m
		07	24.4 m			07	29.9 m
		08	43.0 m			08	20.1 m
		09	15.2 m				

For a more detailed explanation of NES methods, see NES Working Paper No. 175.

The results obtained are presented in full in Appendix C and are summarized in III-A for waters at the surface and at the maximum

depth for each site. Results of the phytoplankton counts and chlorophyll *a* determinations are included in III-B. Results of the limiting nutrient study are presented in III-C.

Temperature profiles reproduced from the graphic records are presented in Appendix D. Depths of physical grab samples are represented by the dots on the profiles. The vertical lines crossing the profiles are to aid in centering the temperature scale for each profile.

Note that in the three layer reservoirs a thermocline was present at the deeper sites on every sampling round. Also, temperatures in Lake Taneycomo generally correspond to temperatures below the epilimnion of Table Rock. Surface temperatures at the uppermost Station (#08) in Bull Shoals are much higher than those in Lake Taneycomo, suggesting the strong influence of Swan and Little Beaver Creeks, and the sluggish nature of flow between Taneycomo Dam and Station 08.

BEAVER LAKE
STORET CODE 0501

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PHYSICAL AND CHEMICAL CHARACTERISTICS

PARAMETER		(6/ 5/74) S*** = 5				(6/18/74) S*** = 5				(8/30/74) S*** = 6			
	N*	RANGE	MEDIAN	MAX DEPTH RANGE (METERS)	N*	RANGE	MEDIAN	MAX DEPTH RANGE (METERS)	N*	RANGE	MEDIAN	MAX DEPTH RANGE (METERS)	
TEMPERATURE (DEG CENT)													
0.-1.5 M DEPTH	12	10.5- 13.1	11.4	0.0- 1.5	12	23.2- 25.1	24.5	0.0- 1.5	6	25.7- 26.3	25.9	0.0- 1.5	
MAX DEPTH**	6	7.2- 11.1	7.5	12.2- 61.0	6	8.5- 18.2	10.3	14.6- 52.1	6	9.2- 21.9	12.3	10.7- 51.8	
DISSOLVED OXYGEN (MG/L)													
0.-1.5 M DEPTH	6	9.0- 10.2	10.0	1.5- 1.5	6	3.2- 10.0	9.1	1.5- 1.5	8	5.0- 7.6	5.8	0.0- 1.5	
MAX DEPTH**	6	7.2- 9.0	8.5	12.2- 61.0	6	2.6- 5.4	4.0	14.6- 52.1	6	0.1- 0.6	0.3	10.7- 51.8	
CONDUCTIVITY (UMHOS)													
0.-1.5 M DEPTH	12	86.- 95.	91.	0.0- 1.5	12	73.- 123.	119.	0.0- 1.5	8	124.- 151.	128.	0.0- 1.5	
MAX DEPTH**	6	71.- 99.	90.	12.2- 61.0	6	72.- 201.	89.	14.6- 52.1	6	83.- 242.	126.	10.7- 51.8	
PH (STANDARD UNITS)													
0.-1.5 M DEPTH	12	7.1- 7.6	7.4	0.0- 1.5	12	7.1- 8.7	8.6	0.0- 1.5	8	7.4- 8.4	7.7	0.0- 1.5	
MAX DEPTH**	6	6.7- 7.0	6.9	12.2- 61.0	6	6.6- 7.4	7.1	14.6- 52.1	6	7.1- 7.3	7.1	10.7- 51.8	
TOTAL ALKALINITY (MG/L)													
0.-1.5 M DEPTH	12	33.- 54.	43.	0.0- 1.5	12	18.- 48.	34.	0.0- 1.5	5	56.- 67.	60.	0.0- 1.5	
MAX DEPTH**	6	29.- 46.	38.	12.2- 61.0	6	31.- 55.	40.	14.6- 52.1	6	60.- 116.	79.	10.7- 51.8	
TOTAL P (MG/L)													
0.-1.5 M DEPTH	12	0.009-0.068	0.038	0.0- 1.5	12	0.008-0.097	0.019	0.0- 1.5	8	0.013-0.055	0.027	0.0- 1.5	
MAX DEPTH**	6	0.049-0.100	0.062	12.2- 61.0	6	0.018-0.122	0.041	14.6- 52.1	6	0.017-0.211	0.108	10.7- 51.8	
DISSOLVED ORTHO P (MG/L)													
0.-1.5 M DEPTH	12	0.004-0.040	0.014	0.0- 1.5	12	0.002-0.012	0.004	0.0- 1.5	8	0.002-0.006	0.004	0.0- 1.5	
MAX DEPTH**	6	0.010-0.029	0.019	12.2- 61.0	6	0.008-0.028	0.013	14.6- 52.1	6	0.005-0.020	0.007	10.7- 51.8	
NO2+NO3 (MG/L)													
0.-1.5 M DEPTH	12	0.210-0.600	0.450	0.0- 1.5	12	0.060-0.210	0.130	0.0- 1.5	8	0.020-0.040	0.035	0.0- 1.5	
MAX DEPTH**	6	0.290-0.740	0.495	12.2- 61.0	6	0.360-0.650	0.500	14.6- 52.1	6	0.040-0.460	0.145	10.7- 51.8	
AMMONIA (MG/L)													
0.-1.5 M DEPTH	12	0.030-0.140	0.050	0.0- 1.5	12	0.020-0.070	0.040	0.0- 1.5	8	0.030-0.110	0.035	0.0- 1.5	
MAX DEPTH**	6	0.050-0.130	0.060	12.2- 61.0	6	0.020-0.160	0.060	14.6- 52.1	6	0.100-1.390	0.575	10.7- 51.8	
KJELDAHL N (MG/L)													
0.-1.5 M DEPTH	12	0.200-0.700	0.250	0.0- 1.5	12	0.200-1.000	0.350	0.0- 1.5	8	0.300-0.800	0.500	0.0- 1.5	
MAX DEPTH**	6	0.200-0.400	0.250	12.2- 61.0	6	0.200-0.400	0.250	14.6- 52.1	6	0.300-1.800	0.900	10.7- 51.8	
SECCHI DISC (METERS)	5	0.6- 2.3	0.9		5	0.3- 4.1	2.4		5	1.1- 5.0	2.7		

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** MAXIMUM DEPTH SAMPLED AT EACH SITE
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BEAVER LAKE
STORET CODE 0501

PHYSICAL AND CHEMICAL CHARACTERISTICS

(10/ 9/74)
S*** = 6

PARAMETER	N*	RANGE	MEDIAN	MAX DEPTH RANGE (METERS)
TEMPERATURE (DEG CENT)				
0.-1.5 M DEPTH	12	17.8- 19.7	19.5	0.0- 1.5
MAX DEPTH**	6	9.5- 15.3	15.6	11.9- 53.3
DISSOLVED OXYGEN (MG/L)				
0.-1.5 M DEPTH	12	5.6- 9.2	7.1	0.0- 1.5
MAX DEPTH**	6	0.2- 6.2	0.4	11.9- 53.3
CONDUCTIVITY (UMHOS)				
0.-1.5 M DEPTH	12	85.- 108.	102.	0.0- 1.5
MAX DEPTH**	6	79.- 160.	100.	11.9- 53.3
PH (STANDARD UNITS)				
0.-1.5 M DEPTH	12	6.8- 7.3	7.1	0.0- 1.5
MAX DEPTH**	6	6.6- 6.9	6.8	11.9- 53.3
TOTAL ALKALINITY (MG/L)				
0.-1.5 M DEPTH	12	43.- 64.	56.	0.0- 1.5
MAX DEPTH**	6	45.- 91.	65.	11.9- 53.3
TOTAL P (MG/L)				
0.-1.5 M DEPTH	12	0.010-0.047	0.018	0.0- 1.5
MAX DEPTH**	6	0.024-0.212	0.082	11.9- 53.3
DISSOLVED ORTHO P (MG/L)				
0.-1.5 M DEPTH	12	0.003-0.009	0.005	0.0- 1.5
MAX DEPTH**	6	0.007-0.009	0.008	11.9- 53.3
NO2+NO3 (MG/L)				
0.-1.5 M DEPTH	12	0.040-0.380	0.110	0.0- 1.5
MAX DEPTH**	6	0.030-0.400	0.185	11.9- 53.3
AMMONIA (MG/L)				
0.-1.5 M DEPTH	12	0.020-0.160	0.055	0.0- 1.5
MAX DEPTH**	6	0.140-1.270	0.255	11.9- 53.3
KJELDAHL N (MG/L)				
0.-1.5 M DEPTH	12	0.200-0.700	0.350	0.0- 1.5
MAX DEPTH**	6	0.400-1.700	0.500	11.9- 53.3
SECCHI DISC (METERS)	6	0.9- 5.5	1.7	

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TABLE ROCK LAKE
STORET CODE 0515

PHYSICAL AND CHEMICAL CHARACTERISTICS

PARAMETER	(4/ 5/74) S*** = 9 N*	RANGE	MEDIAN	MAX DEPTH RANGE (METERS)	(6/19/74) S*** = 9 N*	RANGE	MEDIAN	MAX DEPTH RANGE (METERS)	(9/ 4/74) S*** = 9 N*	RANGE	MEDIAN	MAX DEPTH RANGE (METERS)
TEMPERATURE (DEG CENT)												
0.-1.5 M DEPTH	18	10.3- 14.0	11.1	0.0- 1.5	18	23.8- 26.6	25.8	0.0- 1.5	22	14.5- 24.6	23.5	0.0- 1.5
MAX DEPTH**	9	6.5- 13.6	7.5	11.9- 61.0	9	9.7- 18.1	12.0	15.2- 53.3	9	11.6- 17.4	14.8	12.8- 51.8
DISSOLVED OXYGEN (MG/L)												
0.-1.5 M DEPTH	9	9.0- 12.0	10.6	1.5- 1.5	9	9.6- 13.4	11.2	1.5- 1.5	22	4.6- 11.6	7.0	0.0- 1.5
MAX DEPTH**	9	8.0- 10.4	8.6	11.9- 61.0	9	0.4- 7.8	2.6	15.2- 53.3	9	0.2- 8.2	0.6	12.8- 51.8
CONDUCTIVITY (UMHOS)												
0.-1.5 M DEPTH	18	100.- 240.	150.	0.0- 1.5	18	182.- 247.	192.	0.0- 1.5	22	171.- 259.	193.	0.0- 1.5
MAX DEPTH**	9	93.- 240.	144.	11.9- 61.0	9	100.- 249.	150.	15.2- 53.3	9	111.- 303.	157.	12.8- 51.8
PH (STANDARD UNITS)												
0.-1.5 M DEPTH	18	7.5- 8.6	8.1	0.0- 1.5	18	8.5- 9.1	8.9	0.0- 1.5	22	7.7- 8.6	8.0	0.0- 1.5
MAX DEPTH**	9	7.2- 8.0	7.6	11.9- 61.0	9	7.3- 7.7	7.5	15.2- 53.3	9	6.9- 7.9	7.5	12.8- 51.8
TOTAL ALKALINITY (MG/L)												
0.-1.5 M DEPTH	18	55.- 130.	92.	0.0- 1.5	17	65.- 104.	93.	0.0- 1.5	22	97.- 140.	104.	0.0- 1.5
MAX DEPTH**	9	51.- 132.	92.	11.9- 61.0	9	41.- 135.	98.	15.2- 53.3	9	79.- 167.	106.	12.8- 51.8
TOTAL P (MG/L)												
0.-1.5 M DEPTH	18	0.012-0.111	0.026	0.0- 1.5	18	0.015-0.086	0.025	0.0- 1.5	22	0.013-0.123	0.019	0.0- 1.5
MAX DEPTH**	9	0.014-0.120	0.034	11.9- 61.0	9	0.010-0.073	0.021	15.2- 53.3	9	0.035-0.240	0.068	12.8- 51.8
DISSOLVED ORTHO P (MG/L)												
0.-1.5 M DEPTH	18	0.002-0.087	0.007	0.0- 1.5	17	0.002-0.019	0.006	0.0- 1.5	22	0.002-0.064	0.005	0.0- 1.5
MAX DEPTH**	9	0.004-0.073	0.012	11.9- 61.0	9	0.003-0.052	0.015	15.2- 53.3	9	0.004-0.152	0.011	12.8- 51.8
NO2+NO3 (MG/L)												
0.-1.5 M DEPTH	18	0.230-1.870	0.430	0.0- 1.5	17	0.030-0.600	0.110	0.0- 1.5	22	0.020-0.400	0.055	0.0- 1.5
MAX DEPTH**	9	0.250-1.870	0.570	11.9- 61.0	9	0.280-1.430	0.570	15.2- 53.3	9	0.020-1.200	0.240	12.8- 51.8
AMMONIA (MG/L)												
0.-1.5 M DEPTH	18	0.020-0.060	0.050	0.0- 1.5	17	0.020-0.050	0.040	0.0- 1.5	22	0.030-0.210	0.040	0.0- 1.5
MAX DEPTH**	9	0.030-0.170	0.060	11.9- 61.0	9	0.020-0.190	0.040	15.2- 53.3	9	0.060-0.750	0.220	12.8- 51.8
KJELDAHL N (MG/L)												
0.-1.5 M DEPTH	18	0.200-0.400	0.200	0.0- 1.5	18	0.300-0.900	0.500	0.0- 1.5	22	0.200-1.200	0.500	0.0- 1.5
MAX DEPTH**	9	0.200-0.300	0.200	11.9- 61.0	9	0.200-0.400	0.200	15.2- 53.3	9	0.300-0.900	0.700	12.8- 51.8
SECCHI DISC (METERS)	9	0.9- 2.3	1.8		9	1.1- 3.0	1.9		13	1.0- 4.0	2.7	

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TABLE ROCK LAKE
STORET CODE 0515

PHYSICAL AND CHEMICAL CHARACTERISTICS

(10/11/74)

PARAMETER	N*	RANGE	MEDIAN	S*** : 5 MAX DEPTH RANGE (METERS)
TEMPERATURE (DEG CENT)				
0.-1.5 M DEPTH	10	19.1- 19.9	19.5	0.0- 1.5
MAX DEPTH**	5	12.0- 15.6	14.3	32.0- 52.1
DISSOLVED OXYGEN (MG/L)				
0.-1.5 M DEPTH	10	6.0- 9.8	7.4	0.0- 1.5
MAX DEPTH**	5	0.0- 0.2	0.0	32.0- 52.1
CONDUCTIVITY (UMHOS)				
0.-1.5 M DEPTH	10	171.- 201.	178.	0.0- 1.5
MAX DEPTH**	5	99.- 229.	161.	32.0- 52.1
PH (STANDARD UNITS)				
0.-1.5 M DEPTH	10	7.7- 8.4	7.8	0.0- 1.5
MAX DEPTH**	5	6.8- 7.2	7.1	32.0- 52.1
TOTAL ALKALINITY (MG/L)				
0.-1.5 M DEPTH	10	93.- 122.	102.	0.0- 1.5
MAX DEPTH**	5	46.- 135.	109.	32.0- 52.1
TOTAL P (MG/L)				
0.-1.5 M DEPTH	10	0.011-0.024	0.016	0.0- 1.5
MAX DEPTH**	5	0.019-0.360	0.191	32.0- 52.1
DISSOLVED ORTHO P (MG/L)				
0.-1.5 M DEPTH	10	0.004-0.011	0.007	0.0- 1.5
MAX DEPTH**	5	0.005-0.037	0.011	32.0- 52.1
NO2+NO3 (MG/L)				
0.-1.5 M DEPTH	10	0.020-0.090	0.030	0.0- 1.5
MAX DEPTH**	5	0.020-0.290	0.090	32.0- 52.1
AMMONIA (MG/L)				
0.-1.5 M DEPTH	10	0.020-0.070	0.040	0.0- 1.5
MAX DEPTH**	5	0.060-1.020	1.000	32.0- 52.1
KJELDAHL N (MG/L)				
0.-1.5 M DEPTH	10	0.200-1.000	0.350	0.0- 1.5
MAX DEPTH**	5	0.200-1.800	1.200	32.0- 52.1
SECCHI DISC (METERS)				
	5	1.3- 3.7	3.0	

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LAKE TANEYCOMO
STORET CODE 2904

PHYSICAL AND CHEMICAL CHARACTERISTICS

PARAMETER		(4/10/74) S*** = 2		MAX DEPTH RANGE (METERS)		(6/19/74) S*** = 2		MAX DEPTH RANGE (METERS)		(8/30/74) S*** = 2		MAX DEPTH RANGE (METERS)
	N*	RANGE	MEDIAN		N*	RANGE	MEDIAN		N*	RANGE	MEDIAN	
TEMPERATURE (DEG CENT)												
0.-1.5 M DEPTH	4	8.7- 9.4	9.0	0.0- 1.5	4	13.9- 15.3	14.3	0.0- 1.5	2	14.8- 17.0	15.9	0.0- 0.0
MAX DEPTH**	2	8.7- 9.3	9.0	9.1- 12.2	2	13.9- 14.1	14.0	10.4- 12.8	2	14.7- 15.9	15.3	8.8- 12.2
DISSOLVED OXYGEN (MG/L)												
0.-1.5 M DEPTH	2	10.0- 10.6	10.3	1.5- 1.5	2	7.2- 7.6	7.4	1.5- 1.5	2	3.8- 5.4	4.6	0.0- 0.0
MAX DEPTH**	2	10.4- 10.4	10.4	9.1- 12.2	2	6.8- 7.2	7.0	10.4- 12.8	2	5.0- 5.6	5.3	8.8- 12.2
CONDUCTIVITY (UMHOS)												
0.-1.5 M DEPTH	4	149.- 155.	152.	0.0- 1.5	4	157.- 173.	162.	0.0- 1.5	2	139.- 139.	139.	0.0- 0.0
MAX DEPTH**	2	149.- 155.	152.	9.1- 12.2	2	161.- 167.	164.	10.4- 12.8	2	133.- 139.	136.	8.8- 12.2
PH (STANDARD UNITS)												
0.-1.5 M DEPTH	4	7.9- 8.1	8.0	0.0- 1.5	4	7.9- 8.0	7.9	0.0- 1.5	2	7.5- 7.5	7.5	0.0- 0.0
MAX DEPTH**	2	8.0- 8.0	8.0	9.1- 12.2	2	7.9- 8.0	7.9	10.4- 12.8	2	7.4- 7.5	7.4	8.8- 12.2
TOTAL ALKALINITY (MG/L)												
0.-1.5 M DEPTH	4	93.- 98.	95.	0.0- 1.5	4	99.- 101.	100.	0.0- 1.5	2	90.- 100.	95.	0.0- 0.0
MAX DEPTH**	2	95.- 95.	95.	9.1- 12.2	2	96.- 103.	100.	10.4- 12.8	2	94.- 99.	97.	8.8- 12.2
TOTAL P (MG/L)												
0.-1.5 M DEPTH	4	0.017-0.024	0.018	0.0- 1.5	4	0.017-0.021	0.020	0.0- 1.5	2	0.034-0.068	0.051	0.0- 0.0
MAX DEPTH**	2	0.019-0.022	0.020	9.1- 12.2	2	0.019-0.023	0.021	10.4- 12.8	2	0.031-0.042	0.036	8.8- 12.2
DISSOLVED ORTHO P (MG/L)												
0.-1.5 M DEPTH	4	0.003-0.008	0.004	0.0- 1.5	4	0.004-0.013	0.007	0.0- 1.5	2	0.018-0.018	0.018	0.0- 0.0
MAX DEPTH**	2	0.005-0.005	0.005	9.1- 12.2	2	0.004-0.006	0.005	10.4- 12.8	2	0.013-0.022	0.017	8.8- 12.2
NO2+NO3 (MG/L)												
0.-1.5 M DEPTH	4	0.500-0.520	0.510	0.0- 1.5	4	0.590-0.670	0.605	0.0- 1.5	2	0.410-0.510	0.460	0.0- 0.0
MAX DEPTH**	2	0.510-0.510	0.510	9.1- 12.2	2	0.600-0.600	0.600	10.4- 12.8	2	0.460-0.500	0.480	8.8- 12.2
AMMONIA (MG/L)												
0.-1.5 M DEPTH	4	0.020-0.030	0.025	0.0- 1.5	4	0.050-0.060	0.055	0.0- 1.5	2	0.030-0.150	0.090	0.0- 0.0
MAX DEPTH**	2	0.020-0.020	0.020	9.1- 12.2	2	0.040-0.050	0.045	10.4- 12.8	2	0.020-0.050	0.035	8.8- 12.2
KJELDAHL N (MG/L)												
0.-1.5 M DEPTH	4	0.200-0.600	0.200	0.0- 1.5	4	0.200-0.400	0.250	0.0- 1.5	2	0.300-0.400	0.350	0.0- 0.0
MAX DEPTH**	2	0.200-0.200	0.200	9.1- 12.2	2	0.200-0.200	0.200	10.4- 12.8	2	0.200-0.200	0.200	8.8- 12.2
SECCHI DISC (METERS)												
	2	2.3- 2.7	2.5		2	1.8- 2.4	2.1		2	1.6- 2.1	1.9	

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LAKE TANEYCOMO
STORET CODE 2904

PHYSICAL AND CHEMICAL CHARACTERISTICS

(10/ 4/74)

PARAMETER	N*	RANGE	MEDIAN	MAX DEPTH RANGE (METERS)
TEMPERATURE (DEG CENT)				
0.-1.5 M DEPTH	4	15.8- 16.0	15.9	0.0- 1.5
MAX DEPTH**	2	15.3- 15.3	15.3	9.4- 12.2
DISSOLVED OXYGEN (MG/L)				
0.-1.5 M DEPTH	4	6.2- 7.2	6.4	0.0- 1.5
MAX DEPTH**	2	5.2- 5.8	5.5	9.4- 12.2
CONDUCTIVITY (UMHOS)				
0.-1.5 M DEPTH	4	153.- 159.	157.	0.0- 1.5
MAX DEPTH**	2	151.- 153.	152.	9.4- 12.2
PH (STANDARD UNITS)				
0.-1.5 M DEPTH	4	7.2- 7.3	7.2	0.0- 1.5
MAX DEPTH**	2	7.1- 7.2	7.1	9.4- 12.2
TOTAL ALKALINITY (MG/L)				
0.-1.5 M DEPTH	4	94.- 103.	97.	0.0- 1.5
MAX DEPTH**	2	93.- 97.	95.	9.4- 12.2
TOTAL P (MG/L)				
0.-1.5 M DEPTH	4	0.019-0.051	0.029	0.0- 1.5
MAX DEPTH**	2	0.034-0.038	0.036	9.4- 12.2
DISSOLVED ORTHO P (MG/L)				
0.-1.5 M DEPTH	4	0.005-0.018	0.008	0.0- 1.5
MAX DEPTH**	2	0.010-0.011	0.010	9.4- 12.2
NO2+NO3 (MG/L)				
0.-1.5 M DEPTH	4	0.310-0.380	0.340	0.0- 1.5
MAX DEPTH**	2	0.310-0.370	0.340	9.4- 12.2
AMMONIA (MG/L)				
0.-1.5 M DEPTH	4	0.020-0.090	0.040	0.0- 1.5
MAX DEPTH**	2	0.040-0.050	0.045	9.4- 12.2
KJELDAHL N (MG/L)				
0.-1.5 M DEPTH	4	0.200-1.200	0.450	0.0- 1.5
MAX DEPTH**	2	0.300-0.400	0.350	9.4- 12.2
SECCHI DISC (METERS)				
	2	1.3- 1.8	1.6	

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BULL SHOALS LAKE
STORET CODE 0504

PHYSICAL AND CHEMICAL CHARACTERISTICS

PARAMETER	(4/ 6/74) S*** = 2 N*	RANGE	MEDIAN	MAX DEPTH RANGE (METERS)	(6/20/74) S*** = 8 N*	RANGE	MEDIAN	MAX DEPTH RANGE (METERS)	(9/ 4/74) S*** = 8 N*	RANGE	MEDIAN	MAX DEPTH RANGE (METERS)
TEMPERATURE (DEG CENT)												
0.-1.5 M DEPTH	16	9.7- 11.7	11.0	0.0- 1.5	16	24.4- 27.7	26.2	0.0- 1.5	15	19.2- 25.0	24.1	0.0- 1.5
MAX DEPTH**	8	7.1- 9.6	7.8	16.8- 57.9	8	9.2- 14.7	9.8	16.2- 48.8	8	9.3- 17.0	14.6	17.4- 56.7
DISSOLVED OXYGEN (MG/L)												
0.-1.5 M DEPTH	8	10.2- 11.6	10.6	1.5- 1.5	16	8.2- 10.6	8.8	0.0- 1.5	15	6.4- 8.4	7.8	0.0- 1.5
MAX DEPTH**	8	8.6- 11.6	9.4	16.8- 57.9	8	0.2- 9.4	4.3	16.2- 48.8	8	0.0- 4.4	0.4	17.4- 56.7
CONDUCTIVITY (UMHOS)												
0.-1.5 M DEPTH	13	8.- 55.	23.	0.0- 1.5	16	240.- 270.	251.	0.0- 1.5	15	196.- 275.	223.	0.0- 1.5
MAX DEPTH**	8	143.- 265.	197.	16.8- 57.9	8	170.- 208.	182.	16.2- 48.8	8	180.- 259.	197.	17.4- 56.7
PH (STANDARD UNITS)												
0.-1.5 M DEPTH	16	8.1- 8.5	8.2	0.0- 1.5	16	8.4- 8.8	8.6	0.0- 1.5	15	8.1- 8.5	8.3	0.0- 1.5
MAX DEPTH**	8	7.6- 8.5	7.7	16.8- 57.9	8	7.5- 8.5	7.9	16.2- 48.8	8	7.4- 7.7	7.5	17.4- 56.7
TOTAL ALKALINITY (MG/L)												
0.-1.5 M DEPTH	16	98.- 127.	120.	0.0- 1.5	16	123.- 136.	128.	0.0- 1.5	15	116.- 160.	127.	0.0- 1.5
MAX DEPTH**	8	96.- 150.	117.	16.8- 57.9	7	105.- 147.	126.	16.2- 48.8	8	124.- 166.	134.	17.4- 56.7
TOTAL P (MG/L)												
0.-1.5 M DEPTH	16	0.012-0.025	0.016	0.0- 1.5	16	0.007-0.043	0.010	0.0- 1.5	15	0.013-0.026	0.018	0.0- 1.5
MAX DEPTH**	8	0.009-0.036	0.016	16.8- 57.9	8	0.009-0.025	0.012	16.2- 48.8	8	0.022-0.104	0.039	17.4- 56.7
DISSOLVED ORTHO P (MG/L)												
0.-1.5 M DEPTH	16	0.004-0.009	0.005	0.0- 1.5	16	0.002-0.015	0.002	0.0- 1.5	15	0.002-0.010	0.004	0.0- 1.5
MAX DEPTH**	8	0.003-0.009	0.004	16.8- 57.9	7	0.002-0.008	0.006	16.2- 48.8	8	0.002-0.023	0.009	17.4- 56.7
NO2+NO3 (MG/L)												
0.-1.5 M DEPTH	16	0.280-0.650	0.335	0.0- 1.5	16	0.060-0.230	0.165	0.0- 1.5	15	0.020-0.090	0.050	0.0- 1.5
MAX DEPTH**	8	0.350-0.430	0.390	16.8- 57.9	7	0.420-0.600	0.500	16.2- 48.8	8	0.090-0.570	0.220	17.4- 56.7
AMMONIA (MG/L)												
0.-1.5 M DEPTH	16	0.030-0.060	0.040	0.0- 1.5	16	0.020-0.140	0.040	0.0- 1.5	15	0.020-0.060	0.040	0.0- 1.5
MAX DEPTH**	8	0.020-0.060	0.040	16.8- 57.9	7	0.020-0.080	0.040	16.2- 48.8	8	0.030-0.560	0.245	17.4- 56.7
KJELDAHL N (MG/L)												
0.-1.5 M DEPTH	16	0.200-0.600	0.300	0.0- 1.5	16	0.200-1.600	0.400	0.0- 1.5	15	0.200-0.800	0.300	0.0- 1.5
MAX DEPTH**	8	0.200-0.300	0.200	16.8- 57.9	8	0.200-0.300	0.200	16.2- 48.8	8	0.200-0.900	0.450	17.4- 56.7
SECCHI DISC (METERS)	8	1.5- 3.9	3.8		8	3.3- 7.5	6.6		11	2.1- 4.0	3.4	

* N = NO. OF SAMPLES
** MAXIMUM DEPTH SAMPLED AT EACH SITE
*** S = NO. OF SITES SAMPLED ON THIS DATE

BULL SHOALS LAKE
STORET CODE 0504

PHYSICAL AND CHEMICAL CHARACTERISTICS

(10/15/74)

**** = 5

PARAMETER	NO*	RANGE	MEDIAN	MAX DEPTH RANGE (METERS)
TEMPERATURE (DEG CENT)				
0.-1.5 M DEPTH	10	19.3- 19.7	19.5	0.0- 1.5
MAX DEPTH**	5	10.4- 16.6	12.3	27.1- 53.6
DISSOLVED OXYGEN (MG/L)				
0.-1.5 M DEPTH	10	6.4- 8.0	7.5	0.0- 1.5
MAX DEPTH**	5	0.6- 0.8	0.8	27.1- 53.6
CONDUCTIVITY (UMHOS)				
0.-1.5 M DEPTH	10	213.- 253.	219.	0.0- 1.5
MAX DEPTH**	5	191.- 233.	195.	27.1- 53.6
PH (STANDARD UNITS)				
0.-1.5 M DEPTH	10	8.0- 8.1	8.0	0.0- 1.5
MAX DEPTH**	5	7.1- 7.3	7.2	27.1- 53.6
TOTAL ALKALINITY (MG/L)				
0.-1.5 M DEPTH	10	122.- 147.	133.	0.0- 1.5
MAX DEPTH**	5	129.- 163.	145.	27.1- 53.6
TOTAL P (MG/L)				
0.-1.5 M DEPTH	10	0.009-0.027	0.014	0.0- 1.5
MAX DEPTH**	5	0.043-0.151	0.098	27.1- 53.6
DISSOLVED ORTHO P (MG/L)				
0.-1.5 M DEPTH	10	0.002-0.008	0.004	0.0- 1.5
MAX DEPTH**	5	0.003-0.042	0.013	27.1- 53.6
NO2+NO3 (MG/L)				
0.-1.5 M DEPTH	10	0.020-0.080	0.060	0.0- 1.5
MAX DEPTH**	5	0.020-0.080	0.020	27.1- 53.6
AMMONIA (MG/L)				
0.-1.5 M DEPTH	10	0.020-0.060	0.040	0.0- 1.5
MAX DEPTH**	5	0.410-0.870	0.570	27.1- 53.6
KJELDAHL N (MG/L)				
0.-1.5 M DEPTH	10	0.200-0.800	0.300	0.0- 1.5
MAX DEPTH**	5	0.600-1.000	0.700	27.1- 53.6
SECCHI DISC (METERS)				
	5	3.0- 4.0	3.8	

* N = NO. OF SAMPLES
** MAXIMUM DEPTH SAMPLED AT EACH SITE
*** S = NO. OF SITES SAMPLED ON THIS DATE

B. Biological Characteristics:

1. Phytoplankton -

Beaver

Sampling Date	Dominant Genera	Algal Units per ml
04/05/74	1. Cryptomonas	475
	2. Melosira	412
	3. Chroomonas	380
	4. Stephanodiscus	190
	5. Dactylococcopsis	95
	Other genera	128
	Total	1,680
06/18/74	Missing	
08/30/74	1. Lyngbya	549
	2. Synedra	549
	3. Chroomonas	335
	4. Nitzschia	335
	5. Melosira	244
	Other genera	913
	Total	2,925
10/09/74	1. Centric diatom	172
	2. Melosira	172
	3. Skeletonema	103
	4. Cryptomonas	69
	5. Tetraedron	69
	Other genera	137
	Total	722

Table Rock

Sampling Date	Dominant Genera	Algal Units per ml
04/05/74	1. Melosira	992
	2. Fragilaria	771
	3. Stephanodiscus	661
	4. Centric diatom	257
	5. Chroomonas	220
	Other genera	405
	Total	3,306
06/19/74	1. Chroomonas	264
	2. Mougeotia	231
	3. Tetraedron	231
	4. Cryptomonas	198
	5. Ankistrodesmus	132
	Other genera	530
	Total	1,586
09/04/74	1. Achnanthes	17,906
	2. Raphidiopsis	1,601
	3. Centric diatom	679
	4. Pennate diatom	582
	5. Chroomonas	388
	Other genera	1,165
	Total	22,321
10/11/74	1. Achnanthes	13,893
	2. Dactylococcopsis	1,393
	3. Tetraedron	503
	4. Cryptomonas	232
	5. Chroomonas	193
	Other genera	427
	Total	16,641

B. Biological Characteristics (continued):

1. Phytoplankton -

Taneycomo

Sampling Date	Dominant Genera	Algal Units per ml
04/10/74	1. Stephanodiscus	625
	2. Melosira	459
	3. Cryptomonas	125
	4. Synedra	125
	5. Diatoma	42
	Other genera	83
	Total	1,459
06/19/74	1. Chroomonas	127
	2. Cyclotella	85
	3. Dinobryon	85
	4. Nitzschia	85
	5. Tetraedron	85
	Other genera	170
	Total	637
08/30/74	1. Dinobryon	179
	2. Kirchneriella	179
	3. Melosira	135
	4. Achnanthes	134
	5. Cryptomonas	90
	Other genera	178
	Total	895
10/04/74	1. Achnanthes	2,486
	2. Cryptomonas	163
	3. Chroomonas	122
	4. Melosira	82
	5. Cosmarium	41
	Other genera	82
	Total	2,976

Bull Shoals

Sampling Date	Dominant Genera	Algal Units per ml
04/06/74	1. Melosira	680
	2. Chroomonas	375
	3. Stephanodiscus	357
	4. Cryptomonas	285
	5. Synedra	210
	Other genera	285
	Total	2,192
06/20/74	1. Fragilaria	927
	2. Chroomonas	232
	3. Cryptomonas	165
	4. Aphanizomenon	132
	5. Aphanothece	66
	Other genera	166
	Total	1,688
09/04/74	1. Chroomonas	181
	2. Mougeotia	109
	3. Cryptomonas	72
	4. Anabaena	36
	5. Aphanizomenon	36
	Other genera	36
	Total	470
10/15/74	1. Chroomonas	252
	2. Melosira	189
	3. Cryptomonas	126
	4. Fragilaria	126
	5. Tetraedron	94
	Other genera	125
	Total	912

2. Chlorophyll a -

Beaver Reservoir

Sampling Date	Station Number	Chlorophyll a (µg/l)
04/05/74	01	1.7
	02	3.4
	03	6.5
	04	6.0
	05	7.6
	06	2.9
06/18/74	01	3.3
	02	1.6
	03	1.0
	04	2.2
	05	1.6
	06	2.3
08/30/74	01	2.4
	02	2.8
	03	3.0
	04	3.9
	05	6.2
	06	12.4
10/09/74	01	3.5
	02	2.7
	03	3.9
	04	2.8
	05	6.6
	06	3.8

Table Rock Reservoir

Sampling Date	Station Number	Chlorophyll a (µg/l)
04/05/74	01	12.4
	02	6.8
	03	7.0
	04	2.8
	05	2.9
	06	4.6
	07	28.9
	08	8.1
	09	6.3
06/19/74	01	5.7
	02	4.1
	03	7.0
	04	3.2
	05	1.5
	06	2.4
	07	7.6
	08	9.3
	09	16.4
09/04/74	01	8.7
	02	11.4
	03	9.5
	04	6.6
	05	6.0
	06	15.2
	07	3.6
	08	9.0
	09	13.4
10/11/74	01	22.6
	02	30.9
	03	2.4
	04	5.2
	05	5.8
	06	3.2
	07	7.7
	08	2.7
	09	26.8

2. Chlorophyll a (continued):

Taneycomo Reservoir

Sampling Date	Station Number	Chlorophyll a (µg/l)
04/10/74	01	8.2
	02	8.8
06/19/74	01	0.6
	02	0.3
08/30/74	01	1.4
	02	0.7
10/04/74	01	21.8
	02	36.8

Bull Shoals Reservoir

Sampling Date	Station Number	Chlorophyll a (µg/l)
04/06/74	01	2.4
	02	1.8
	03	1.8
	04	1.7
	05	5.0
	06	10.6
	07	12.7
	08	7.5
06/20/74	01	1.1
	02	2.8
	03	1.5
	04	2.1
	05	1.0
	06	2.2
	07	5.6
	08	10.0
09/04/74	01	3.4
	02	3.4
	03	2.9
	04	3.2
	05	3.5
	06	4.7
	07	3.4
	08	5.4
10/15/74	01	2.4
	02	3.1
	03	3.2
	04	3.3
	05	3.4
	06	4.0
	07	3.6
	08	5.1

C. Limiting Nutrient Study:

1. Autoclaved, filtered, and nutrient spiked -

Spike(mg/l)	Beaver Reservoir Ortho P Conc.(mg/l)	Beaver Reservoir Inorganic N Conc.(mg/l)	Beaver Reservoir Maximum Yield (mg/l-dry wt.)	Table Rock Reservoir Ortho P Conc.(mg/l)	Table Rock Reservoir Inorganic N Conc.(mg/l)	Table Rock Reservoir Maximum Yield (mg/l-dry wt.)
	04/05/74 - Stations 01-03			04/05/74 - Stations 01-03		
Control	0.005	0.400	3.6	0.015	0.579	5.4
0.05 P	0.055	0.400	12.8	0.065	0.579	14.1
0.05 P + 1.0 N	0.055	1.400	23.5	0.065	1.579	21.2
1.00 N	0.005	1.400	3.1	0.015	1.579	5.0
	04/05/74 - Stations 04-06			04/05/74 - Stations 04-06		
Control	0.020	0.539	0.1	0.005	0.269	0.1
0.05 P	0.070	0.539	10.3	0.055	0.269	8.3
0.05 P + 1.0 N	0.070	1.539	22.3	0.055	1.269	17.4
1.00 N	0.020	1.539	0.1	0.005	1.269	0.1
				04/05/74 - Stations 07-09		
Control				0.020	0.925	4.7
0.05 P				0.070	0.925	8.2
0.05 P + 1.0 N				0.070	1.925	21.7
1.00 N				0.020	1.925	5.2

C. Limiting Nutrient Study (continued):

1. Autoclaved, filtered, and nutrient spiked -

	Taneycomo Reservoir			Bull Shoals Reservoir		
Spike(mg/l)	Ortho P Conc.(mg/l)	Inorganic N Conc.(mg/l)	Maximum Yield (mg/l-dry wt.)	Ortho P Conc.(mg/l)	Inorganic N Conc.(mg/l)	Maximum Yield (mg/l-dry wt.)
	04/10/74			04/06/74 - Stations 01-03		
Control	0.005	0.500	0.1	0.005	0.316	0.1
0.05 P	0.055	0.500	12.0	0.055	0.316	8.1
0.05 P + 1.0 N	0.055	1.500	11.1	0.055	1.316	18.5
1.00 N	0.005	1.500	0.1	0.005	1.316	0.1
	10/04/74			04/06/74 - Stations 04-06		
Control	0.010	0.410	1.0	<0.005	0.330	0.1
0.05 P	0.060	0.410	10.6	<0.055	0.330	8.0
0.05 P + 1.0 N	0.060	1.410	15.8	<0.055	1.330	16.4
1.00 N	0.010	1.410	0.9	<0.005	1.330	0.1
				04/06/74 - Stations 07-09		
Control				<0.005	0.430	0.1
0.05 P				<0.055	0.430	10.4
0.05 P + 1.0 N				<0.055	1.430	17.6
1.00 N				<0.005	1.430	0.1

2. Discussion -

The control yields of the assay alga, Selenastrum capricornutum, indicate that the potential for primary production was high in Beaver Reservoir around Lake Stations 01 to 03, and low for Stations 04 to 06 in the spring. In Table Rock Reservoir, the potential for primary production as measured by algal assay control yield was high for Stations 01 to 03, which are impacted by one STP, and for Stations 07 to 09, which are influenced by the heavily loaded James and Kings Rivers. Potential production for Stations 04 to 06 was low in the spring. Neither of the above two reservoirs have autumn assay data available.

Potentials for primary production in the spring were low for both Taneycomo and Bull Shoals Reservoirs. Assay yields were moderately high in Taneycomo in the autumn, but fall assays were not available for Bull Shoals.

In all four reservoirs, phosphorus limitation was indicated by the increases in assay yields with the addition of phosphorus. Maximum growth yield generally accompanied the simultaneous addition of both phosphorus and nitrogen.

Mean N/P ratios in Beaver, Taneycomo, and Bull Shoals Reservoirs were all greater than 29/1 in the lake data, indicating primary limitation by phosphorus. N/P ratios for

Table Rock Reservoir were greater than 16/1 on all sampling occasions, also indicating phosphorus limitation (an N/P ratio of 14/1 or greater generally reflects phosphorus limitation).

IV. NUTRIENT LOADINGS
(See Appendix E for data)

For the determination of nutrient loadings, the Arkansas and Missouri National Guard collected monthly near-surface grab samples from each of the tributary sites indicated on the maps (pages vi - ix) except for the high runoff months of March and April when two samples were collected. Sampling was begun in June 1974, and was completed in May 1975.

Through an interagency agreement, stream flow estimates for the year of sampling and a "normalized" or average year were provided by the Arkansas and Missouri District Offices of the USGS for the tributary sites nearest the lake.

In this report, nutrient loads for sampled tributaries except for the White River (Beaver), and the James River and Long Creek (Table Rock Reservoir) were determined by using a modification of a USGS computer program for calculating stream loadings. Nutrient loads indicated for tributaries are those measured minus known point source loads, if any.

Nutrient loadings for Beaver Reservoir for unsampled "minor tributaries and immediate drainage" ("ZZ" of USGS) and the White River (A-2) were estimated by using the mean annual nutrient loads, in $kg/km^2/yr$, at Stations E-1 and G-1 and multiplying the means by the ZZ area in km^2.

Loadings for the James River, Long Creek, and minor tributaries to Table Rock Reservoir were estimated by using the mean

annual nutrient loads, in kg/km^2/yr, at Stations B-1, C-1, F-1, G-1, H-1, and L-1, and multiplying the means by the ZZ area in km^2.

ZZ loadings for Taneycomo Reservoir were estimated by using the mean annual nutrient loads, at Stations B-1, C-1, and D-1, and multiplying the means by the ZZ area. Inlet loadings for Taneycomo Reservoir (White River, A-2) equal the outlet loadings for Table Rock Reservoir.

Nutrient loadings for Bull Shoals Reservoir from the ZZ's were estimated by using the mean annual nutrient loads at Stations D-1, E-1, F-1, G-1, J-1, M-1, Q-1, R-1, T-1, W-1, and X-1, and multiplying the means by the ZZ area. Nutrient loadings for the White River, H-1, equal the outlet loads for Taneycomo Reservoir.

The operators of the Fayetteville, Springfield Southwest, Eureka Springs, Green Forest, Berryville, and Branson wastewater treatment plants provided monthly effluent samples and corresponding flow data. The Huntsville sewage treatment plant provided monthly chemistry data, and flow data were estimated in order to calculate annual nutrient loadings. Nutrient loads for the West Fork, Cassville, Billings, Ozark, Republic (Lagoon A), and Ava (2 plants) wastewater treatment plants were estimated at 1.134 kg P and 3.401 kg N/Capita/yr.

A. Waste Sources:

1. Known municipal -

Name	Population Served*	Treatment*	Mean Flow ($m^3/d \times 10^3$)	Receiving Water*
Beaver Reservoir				
Fayetteville[1]	40,000	Activated sludge	26.413	White River
West Fork	810	Activated sludge	0.307**	West Fork White River
Huntsville	1,287	Trickling filter	0.487**	Holman Creek/ War Eagle Creek
Table Rock Reservoir				
Springfield Southwest[2]	100,000	Activated sludge	96.631	Wilson Creek/ James River
Eureka Springs	1,700	Trickling filter	0.897	Leatherwood Creek
Green Forest[1]	1,300	Trickling filter	3.361	Dry Creek/Long Cr
Berryville[3]	2,684	Trickling filter	4.236	Osage Creek/ Kings River
Cassville	1,350	Stabilization pond	0.511**	Flat Creek
Billings	500	Stabilization pond	0.189**	James River
Ozark	1,500	Trickling filter	0.568**	Finley Creek/ James River
Republic Lagoon A	500	Stabilization pond	0.189**	Wilson Creek/ James River
Taneycomo Reservoir				
Branson	20,000	Trickling filter	1.781	Lake Taneycomo
Bull Shoals Reservoir				
Ava (South)	100	Stabilization pond	0.038**	Cowskin Creek/ Beaver Creek
Ava (West)	1,200	Stabilization pond	0.454**	Cowskin Creek/ Beaver Creek

2. Known industrial -

Table Rock Reservoir - See footnotes [1], [2], and [3].

*Plant information provided by the Arkansas Department of Pollution Control and Ecology (1975), treatment plant questionnaires, and/or U.S. EPA (1971).

**Estimated at 0.3785 m^3/capita/day.

[1]More than 25% of the total waste loads to Fayetteville and Green Forest plants were contributed by poultry processing industrial wastes.

[2]More than 25% of the total waste load of this plant contributed by industry: fluid milk, cheese and whey processing, and pharmaceuticals.

[3]More than 25% of the total waste load of this plant contributed by poultry and milk processing.

B. Annual Total Phosphorus Loading - Average Year:

1. Inputs -

Beaver Reservoir			
Source		kg P/yr	% of total
a.	Tributaries (nonpoint load) -		
	A-2 White River	10,360	12.6
	C-1 War Eagle Creek	12,065	14.7
	D-1 Whitener Branch	450	0.6
	E-1 Brush Creek	465	0.6
	G-1 Richland Creek	3,570	4.4
b.	Minor tributaries and immediate drainage (nonpoint load) -	7,230	8.8
c.	Known municipal STP's -		
	Fayetteville	43,545	53.1
	West Fork	920	1.1
	Huntsville	1,395	1.7
d.	Septic tanks* -	10	<0.1
e.	Known industrial - None		
f.	Direct precipitation** -	2,000	2.4
	Totals	82,010	100.0
2.	Output - A-1 White River	18,580	
3.	Net annual P accumulation -	63,430	

Table Rock Reservoir			
Source		kg P/yr	% of total
a.	Tributaries (nonpoint load) -		
	A-2 White River	19,515	7.5
	B-1 Little Indian Creek	80	<0.1
	C-1 Railey Creek	70	<0.1
	D-1 James River	7,670	3.0
	E-1 Flat Creek	2,760	1.1
	F-1 Rock Creek	160	0.1
	G-1 Roaring River	530	0.2
	H-1 Butler Creek	120	0.1
	J-1 Kings River	4,885	1.9
	K-1 Long Creek	1,320	0.5
	L-1 Yokum Creek	620	0.2
b.	Minor tributaries and immediate drainage (nonpoint load) -	4,510	1.7
c.	Known municipal STP's -		
	Springfield Southwest	193,530	74.6
	Eureka Springs	1,150	0.4
	Green Forest	4,745	1.8
	Berryville	10,310	4.0
	Cassville	1,530	0.6
	Billings	565	0.2
	Ozark	1,700	0.7
	Republic	565	0.2
d.	Septic tanks* -	35	<0.1
e.	Known industrial - See p. 29, footnotes 1, 2, & 3.		
f.	Direct precipitation** -	3,050	1.2
	Totals	259,420	100.0
Output - A-1 White River		66,555	
Net annual P accumulation -		192,865	

*Estimate for Beaver Reservoir based on 11 parks.
Estimate for Table Rock Reservoir based on 94 lakeside residences, 2 parks, and 2 resorts.
**Estimated (see NES Working Paper No. 175).

B. Annual Total Phosphorus Loading - Average Year (continued):

1. Inputs -

Taneycomo Reservoir				Bull Shoals Reservoir			
Source		kg P/yr	% of total	Source		kg P/yr	% of total
a.	Tributaries (nonpoint load) -			a.	Tributaries (nonpoint load) -		
	A-2 White River	66,555	89.8		D-1 East Sugar Loaf Creek	225	0.2
	B-1 Roark Creek	185	0.2		E-1 West Sugar Loaf Creek	200	0.2
	C-1 Bull Creek	1,550	2.1		F-1 Bear Creek	1,175	1.1
	D-1 Turkey Creek	190	0.3		G-1 Bee Creek	215	0.2
					H-1 Lake Taneycomo (White River)	87,280	84.6
					J-1 Swan Creek	1,225	1.2
					L-1 Beaver Creek	1,205	1.2
					M-1 Big Creek	435	0.4
					Q-1 Gully Spring Creek	85	0.1
					R-1 Barren Fork	355	0.3
					T-1 Turkey Creek	330	0.3
					W-1 North Fork White River	465	0.5
					X-1 Pond Fork	260	0.3
b.	Minor tributaries and immediate drainage (nonpoint load) -	315	0.4	b.	Minor tributaries and immediate drainage (nonpoint load) -	4,995	4.8
c.	Known municipal STP's -			c.	Known municipal STP's -		
	Branson	5,125	6.9		Ava (South)	115	0.1
					Ava (West)	1,360	1.3
d.	Septic tanks* -	10	<0.1	d.	Septic tanks* -	35	<0.1
e.	Known industrial - None			e.	Known industrial - None		
f.	Direct precipitation** -	215	0.3	f.	Direct precipitation** -	3,220	3.1
	Totals	74,145	100.0		Totals	103,180	100.0
2.	Output - A-1 White River	87,280			Output - A-1 White River	64,915	
3.	Net annual P export*** -	13,135			Net annual P accumulation -	38,265	

*Estimate for Taneycomo Reservoir based on 39 lakeside residences.
Estimate for Bull Shoals Reservoir based on 115 lakeside residences.
**Estimated (see NES Working Paper No. 175).
***Export probably due to unknown sources and/or sampling error.

C. Annual Total Nitrogen Loading - Average Year:

1. Inputs -

Beaver Reservoir			Table Rock Reservoir		
Source	kg N/yr	% of total	Source	kg N/yr	% of total
a. Tributaries (nonpoint load) -			a. Tributaries (nonpoint load) -		
A-2 White River	443,410	27.6	A-2 White River	1,408,170	28.9
C-1 War Eagle Creek	390,825	24.3	B-1 Little Indian Creek	13,240	0.3
D-1 Whitener Branch	41,565	2.6	C-1 Railey Creek	12,385	0.3
E-1 Brush Creek	25,930	1.6	D-1 James River	787,340	16.2
G-1 Richland Creek	113,485	7.0	E-1 Flat Creek	492,035	10.1
			F-1 Rock Creek	13,650	0.3
			G-1 Roaring River	61,035	1.3
			H-1 Butler Creek	10,135	0.2
			J-1 Kings River	692,075	14.2
			K-1 Long Creek	135,610	2.8
			L-1 Yokum Creek	83,625	1.7
b. Minor tributaries and immediate drainage (nonpoint load) -	309,830	19.3	b. Minor tributaries and immediate drainage (nonpoint load) -	463,200	9.5
c. Known municipal STP's -			c. Known municipal STP's -		
Fayetteville	154,805	9.6	Springfield Southwest	445,800	9.2
West Fork	2,755	0.2	Eureka Springs	3,550	0.1
Huntsville	2,225	0.1	Green Forest	20,060	0.4
			Berryville	21,620	0.4
			Cassville	4,590	0.1
			Billings	1,700	<0.1
			Ozark	5,100	0.1
			Republic	1,700	<0.1
d. Septic tanks* -	385	<0.1	d. Septic tanks* -	1,285	<0.1
e. Known industrial - None			e. Known industrial - See p. 29, footnotes 1, 2, & 3.		
f. Direct precipitation** -	123,290	7.7	f. Direct precipitation** -	188,305	3.9
Totals	1,608,505	100.0	Totals	4,866,260	100.0
2. Output - A-1 White River	1,110,180		Output - A-1 White River	6,008,260	
3. Net annual N accumulation -	498,325		Net annual N export*** -	1,142,000	

*Estimate for Beaver Reservoir based on 11 parks.
Estimate for Table Rock Reservoir based on 94 lakeside residences, 2 parks, and 2 resorts.
**Estimated (see NES Working Paper No. 175).
***Export probably due to unknown sources and/or sampling error.

C. Annual Total Nitrogen Loading - Average Year (continued):

1. Inputs -

Taneycomo Reservoir			
Source		kg N/yr	% of total
a.	Tributaries (nonpoint load) -		
	A-2 White River	6,008,260	96.2
	B-1 Roark Creek	12,435	0.2
	C-1 Bull Creek	153,475	2.5
	D-1 Turkey Creek	15,330	0.2
b.	Minor tributaries and immediate drainage (nonpoint load) -	31,425	0.5
c.	Known municipal STP's -		
	Branson	9,555	0.2
d.	Septic tanks* -	415	<0.1
e.	Known industrial - None		
f.	Direct precipitation** -	13,195	0.2
	Totals	6,244,090	100.0
2.	Output - A-1 White River	6,038,630	
3.	Net annual N accumulation -	205,460	

Bull Shoals Reservoir			
Source		kg N/yr	% of total
a.	Tributaries (nonpoint load) -		
	D-1 East Sugar Loaf Creek	10,285	0.1
	E-1 West Sugar Loaf Creek	12,050	0.2
	F-1 Bear Creek	61,220	0.9
	G-1 Bee Creek	5,385	0.1
	H-1 Lake Taneycomo (White River)	6,038,630	86.9
	J-1 Swan Creek	83,565	1.2
	L-1 Beaver Creek	148,500	2.1
	M-1 Big Creek	20,375	0.3
	Q-1 Gully Spring Creek	3,655	<0.1
	R-1 Barren Fork	14,830	0.2
	T-1 Turkey Creek	19,010	0.3
	W-1 North Fork White River	34,085	0.5
	X-1 Pond Fork	19,415	0.3
b.	Minor tributaries and immediate drainage (nonpoint load) -	276,405	4.0
c.	Known municipal STP's -		
	Ava (South)	340	<0.1
	Ava (West)	4,080	0.1
d.	Septic tanks* -	1,225	<0.1
e.	Known industrial - None		
f.	Direct precipitation** -	198,530	2.9
	Totals	6,951,585	100.0
Output - A-1 White River		3,777,390	
Net annual N accumulation -		3,174,195	

*Estimate for Taneycomo Reservoir based on 39 lakeside residences.
Estimate for Bull Shoals Reservoir based on 115 lakeside residences.
**Estimated (see NES Working Paper No. 175).

D. Mean Annual Nonpoint Nutrient Export by Subdrainage Area:

Tributary	kg P/km^2/yr	kg N/km^2/yr
Beaver Reservoir		
White River	10	428
War Eagle Creek	15	487
Whitener Branch	11	1,042
Brush Creek	9	501
Richland Creek	11	356
Table Rock Reservoir		
White River	6	458
Little Indian Creek	2	269
Railey Creek	2	341
James River	3	308
Flat Creek	4	664
Rock Creek	2	176
Roaring Creek	3	393
Butler Creek	2	163
Kings River	4	502
Long Creek	3	308
Yokum Creek	4	504
Taneycomo Reservoir		
White River	6	577
Roark Creek	2	126
Bull Creek	3	293
Turkey Creek	2	174
Bull Shoals Reservoir		
East Sugar Loaf Creek	3	133
West Sugar Loaf Creek	3	175
Bear Creek	3	178
Bee Creek	3	70
White River	8	534
Swan Creek	3	190
Beaver Creek	1	161
Big Creek	4	180
Gully Spring Creek	3	123
Barren Fork	3	133
Turkey Creek	4	203
North Fork White River	3	211
Pond Fork	3	232

E. Mean Nutrient Concentrations in Ungaged Streams:

Tributary	Mean Total P (mg/l)	Mean Total N (mg/l)
Beaver Reservoir		
B-1 Big Clifty Creek	0.027	0.677
F-1 Dry Creek	0.038	1.243
H-1 Prairie Creek	0.021	2.147
Taneycomo Reservoir		
E-1 Bee Creek	0.017	0.923
Bull Shoals Reservoir		
B-1 Moccasin Creek	0.013	0.377
C-1 Jimmie Creek	0.009	0.385
K-1 Cane Creek	0.016	0.819
N-1 Shoal Creek	0.013	0.524
Y-1 Blue Creek	0.013	0.868
Z-1 Deshields Creek	0.017	0.726

Nutrient levels in the ungaged streams for all three reservoirs are in line with the unimpacted gaged tributaries entering those reservoirs.

F. Yearly Loadings:

In the following table, the existing phosphorus annual loading is compared to the relationship proposed by Vollenweider (1975). Essentially, his eutrophic loading is that at which the receiving waters would become eutrophic or remain eutrophic; his oligotrophic loading is that which would result in the receiving water remaining oligotrophic or becoming oligotrophic if morphometry permitted. A mesotrophic loading would be considered one between eutrophic and oligotrophic.

Note that Vollenweider's model may not apply to lakes with short hydraulic retention times or in which light penetration is severely restricted by high concentrations of suspended solids in the surface waters.

Total Yearly Phosphorus Loading ($g/m^2/yr$)

	Beaver	Table Rock
Estimated loadings for	0.72	1.49
Vollenweider's eutrophic loading	0.67	0.88
Vollenweider's oligotrophic loading	0.33	0.44
	Taneycomo	Bull Shoals
Estimated loadings for	6.07	0.56
Vollenweider's eutrophic loading	3.24	1.04
Vollenweider's oligotrophic loading	1.62	0.52

V. LITERATURE REVIEWED

Arkansas Department of Pollution Control and Ecology. 1975. "Section 303(e) Basin Plan Grand (Neosha) and Upper White River Basins."

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U.S. Environmental Protection Agency. 1975. Report of Field Activities of Recreational Area Sewage Treatment Plants in the Vicinity of Table Rock Reservoir. Region VII, Surveillance and Analysis Division.

Vollenweider, R. A. 1975. Input-Output Models With Special Reference to the Phosphorus Loading Concept in Limnology. Schweiz. Z. Hydrol. 37:53-84.

VI. APPENDICES

APPENDIX A

CONVERSION FACTORS

CONVERSION FACTORS

Hectares x 2.471 = acres

Kilometers x 0.6214 = miles

Meters x 3.281 = feet

Cubic meters x 8.107×10^{-4} = acre/feet

Square kilometers x 0.3861 = square miles

Cubic meters/sec x 35.315 = cubic feet/sec

Centimeters x 0.3937 = inches

Kilograms x 2.205 = pounds

Kilograms/square kilometer x 5.711 = lbs/square mile

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APPENDIX B

TRIBUTARY FLOW DATA

TRIBUTARY FLOW INFORMATION FOR ARKANSAS 02/02/77

LAKE CODE 0501 BEAVER RESERVOIR

TOTAL DRAINAGE AREA OF LAKE(SQ KM) 3087.3

TRIBUTARY	SUB-DRAINAGE AREA(SQ KM)	NORMALIZED FLOWS(CMS) JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
0501A1	3087.3	56.35	59.30	47.71	48.87	36.44	36.67	49.27	48.20	33.33	22.03	34.55	36.56	42.35
0501A2	1036.0	12.35	19.79	24.66	31.23	39.08	11.67	6.94	4.70	2.33	4.87	9.51	10.25	14.75
0501C1	902.9	9.09	14.61	18.18	23.02	28.80	8.61	5.13	3.45	1.72	3.60	7.02	7.56	10.88
0501D1	39.9	0.439	0.705	0.875	1.110	1.388	0.413	0.246	0.167	0.082	0.173	0.337	0.362	0.524
0501E1	51.8	0.57	0.92	1.14	1.44	1.81	0.54	0.32	0.22	0.11	0.22	0.44	0.47	0.68
0501G1	318.6	3.57	5.75	7.14	9.06	11.33	3.37	2.01	1.36	0.68	1.41	2.76	2.97	4.27
0501ZZ	838.1	9.49	15.23	18.97	24.04	30.07	8.98	5.35	3.62	1.80	3.74	7.31	7.87	11.35

SUMMARY

TOTAL DRAINAGE AREA OF LAKE = 3087.3
SUM OF SUB-DRAINAGE AREAS = 3087.3

TOTAL FLOW IN = 510.54
TOTAL FLOW OUT = 509.28

MEAN MONTHLY FLOWS AND DAILY FLOWS(CMS)

TRIBUTARY	MONTH	YEAR	MEAN FLOW	DAY	FLOW	DAY	FLOW	DAY	FLOW
0501A1	6	74	122.046	22	52.669				
	7	74	76.739	20	95.145				
	8	74	49.838	17	18.010				
	9	74	28.175	21	1.331				
	10	74	8.750	19	1.331				
	11	74	94.861	23	75.889				
	12	74	68.527	21	44.457				
	1	75	53.236	19	1.501				
	2	75	91.747	28	84.951				
	3	75	103.356	13	143.000	27	153.194		
	4	75	68.244	5	91.463	20	1.444		
	5	75	76.739	18	0.566				
0501A2	6	74	61.731	22	6.513				
	7	74	0.680	20	0.340				
	8	74	1.368	17	1.784				
	9	74	38.228	21	131.956				
	10	74	12.544	20	5.862				
	11	74	57.483	24	8.863				
	12	74	14.810	21	8.665				
	1	75	18.066	19	11.582				
	2	75	46.298	28	44.174				
	3	75	51.112	13	63.147	23	31.149		
	4	75	20.643	6	15.433	20	9.345		
	5	75	10.874	11	23.333				

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TRIBUTARY FLOW INFORMATION FOR ARKANSAS 02/02/77

LAKE CODE 0501 BEAVER RESERVOIR

MEAN MONTHLY FLOWS AND DAILY FLOWS(CMS)

TRIBUTARY	MONTH	YEAR	MEAN FLOW	DAY	FLOW	DAY	FLOW	DAY	FLOW
0501C1	6	74	41.343	22	3.313				
	7	74	1.540	20	1.359				
	8	74	2.367	17	5.663				
	9	74	10.789	21	62.297				
	10	74	4.649	19	3.964				
	11	74	38.228	23	4.814				
	12	74	8.863	21	4.531				
	1	75	8.722	19	6.513				
	2	75	31.432	28	32.281				
	3	75	34.547	13	46.156	22	26.618		
	4	75	11.157	4	13.451	19	13.451	20	6.513
	5	75	5.918	11	1.119	19	12.941		
0501D1	6	74	2.061	22	0.003				
	7	74	0.076	20	0.003				
	8	74	0.119	18	0.003				
	9	74	0.535	21	0.0				
	10	74	0.201	20	0.003				
	11	74	1.906	24	0.003				
	12	74	0.439	21	0.003				
	1	75	0.433	19	0.006				
	2	75	1.569	28	0.028				
	3	75	1.719	13	0.057	23	0.934		
	4	75	0.555	6	0.595	19	0.006		
	5	75	0.294	11	0.028				
0501E1	6	74	2.676	22	0.212				
	7	74	0.099	20	0.085				
	8	74	0.153	18	0.368				
	9	74	0.697	21	3.964				
	10	74	0.261	20	0.255				
	11	74	2.475	24	0.311				
	12	74	0.572						
	1	75	0.564	19	0.425				
	2	75	2.036	28	2.067				
	3	75	2.234	13	2.832	23	1.303		
	4	75	0.719	6	0.773	19	0.425		
	5	75	0.382	11	0.074				
0501G1	6	74	16.452	22	2.265				
	7	74	0.612	20	0.453				
	8	74	0.940						
	9	74	4.276	21	15.291				
	10	74	1.608	20	1.529				
	11	74	15.206	24	1.416				
	12	74	3.511	21	1.841				
	1	75	3.455	19	2.549				
	2	75	12.516	28	12.743				
	3	75	13.734	13	18.406	23	7.929		
	4	75	4.417	6	4.757	20	2.407		
	5	75	2.353	11	0.445				

TRIBUTARY FLOW INFORMATION FOR ARKANSAS 02/02/77

LAKE CODE 0501 BEAVER RESERVOIR

MEAN MONTHLY FLOWS AND DAILY FLOWS(CMS)

TRIBUTARY	MONTH	YEAR	MEAN FLOW	DAY	FLOW	DAY	FLOW	DAY	FLOW
0501ZZ	6	74	43.325	22	3.455				
	7	74	1.608	20	1.416				
	8	74	2.472	17	5.947	18	5.947		
	9	74	11.270	21	65.129				
	10	74	4.248	19	4.248	20	4.248		
	11	74	39.927	23	4.814	24	4.814		
	12	74	9.231	21	4.614				
	1	75	9.118	19	6.796				
	2	75	32.848	28	33.980				
	3	75	36.104	13	48.139	22	28.317	23	21.238
	4	75	11.638	6	12.459	20	6.796		
	5	75	6.201	11	1.169	18	13.507	19	13.507

-45-

TRIBUTARY FLOW INFORMATION FOR ARKANSAS 02/02/77

LAKE CODE 0515 TABLE ROCK RESERVOIR

MEAN MONTHLY FLOWS AND DAILY FLOWS(CMS)

TRIBUTARY	MONTH	YEAR	MEAN FLOW	DAY	FLOW	DAY	FLOW	DAY	FLOW
051581	9	74	0.275	14	0.170				
	10	74	0.099	6	0.142				
	11	74	0.538	3	0.850				
	12	74	0.139	8	0.340				
	1	75	0.280	5	0.566				
	2	75	0.850	9	0.510				
	3	75	1.444	2	1.274				
	4	75	0.368	6	0.510	19	0.283		
	5	75	0.396	4	0.651	8	0.396	18	0.340
	6	75	0.224	8	0.283				
	7	75	0.133	1	0.227				
	8	75	0.025	17	0.113				
0515C1	9	74	0.207	15	0.085				
	10	74	0.071	5	0.057				
	11	74	0.368	2	0.283				
	12	74	0.096	7	0.142				
	1	75	0.190	4	0.425				
	2	75	0.595	8	0.311				
	3	75	1.048	8	0.595				
	4	75	0.249	5	0.311	19	0.142		
	5	75	0.278	3	0.538	17	0.198		
	6	75	0.159	7	0.142				
	7	75	0.102	13	0.085				
	8	75	0.017	9	0.023				
0515D1	9	74	15.631	15	7.929				
	10	74	9.175	5	6.570				
	11	74	94.295	2	46.440				
	12	74	25.513	7	22.965				
	1	75	40.493	4	63.996				
	2	75	76.455	8	43.891				
	3	75	103.923	8	64.562				
	4	75	40.210	5	48.705	19	20.473		
	5	75	31.432	3	61.448	17	15.744		
	6	75	29.450	7	19.935				
	7	75	8.014	13	7.872				
	8	75	4.899	9	3.879				
0515E1	9	74	3.908	15	2.832				
	10	74	2.662	5	1.841				
	11	74	19.822	2	7.929				
	12	74	5.947	7	6.230				
	1	75	9.628	4	9.911				
	2	75	19.822	8	7.646				
	3	75	33.980	8	15.574				
	4	75	14.158	5	14.725	19	8.353		
	5	75	7.929	3	13.592	17	5.663		
	6	75	5.380	7	5.663				
	7	75	2.832	13	2.690				
	8	75	1.189	9	1.274				

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TRIBUTARY FLOW INFORMATION FOR ARKANSAS 02/02/77

LAKE CODE 0515 TABLE ROCK RESERVOIR

TOTAL DRAINAGE AREA OF LAKE(SQ KM) 10411.8

TRIBUTARY	SUB-DRAINAGE AREA(SQ KM)	NORMALIZED FLOWS(CMS) JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
0515A1	10411.8	105.34	124.59	125.16	151.21	209.54	140.73	112.98	104.49	83.82	65.98	90.90	89.76	116.98
0515A2	3071.7	56.35	59.18	47.57	48.99	36.53	36.81	49.27	48.14	33.41	22.09	34.55	36.53	42.36
0515B1	49.2	0.159	0.311	0.510	0.453	0.623	0.283	0.311	0.071	0.170	0.150	0.091	0.102	0.269
0515C1	45.9	0.108	0.215	0.368	0.311	0.425	0.201	0.238	0.048	0.127	0.108	0.062	0.071	0.190
0515D1	2556.3	22.82	28.32	36.53	49.84	47.57	37.10	18.41	13.37	9.63	13.82	16.17	18.80	25.99
0515E1	740.7	4.76	6.74	9.43	10.51	11.47	7.36	4.87	2.12	2.86	3.23	3.17	2.83	5.77
0515F1	77.7	0.28	0.51	0.85	0.79	1.02	0.51	0.51	0.12	0.27	0.25	0.17	0.18	0.45
0515G1	155.4	0.68	1.13	1.76	1.73	2.15	1.13	1.02	0.28	0.57	0.54	0.42	0.42	0.99
0515H1	62.2	0.210	0.396	0.651	0.595	0.793	0.396	0.396	0.091	0.215	0.193	0.122	0.136	0.349
0515J1	1377.9	13.82	21.78	26.08	33.41	40.49	14.61	7.25	4.16	3.09	4.64	10.17	10.45	15.79
0515K1	440.3	2.46	3.77	5.44	5.86	6.63	3.96	2.89	1.10	1.67	1.78	1.59	1.50	3.22
0515L1	165.8	0.71	1.22	1.87	1.87	2.27	1.25	1.08	0.31	0.59	0.59	0.40	0.45	1.05
0515ZZ	1678.3	19.51	23.56	24.98	29.45	28.60	19.71	16.42	13.31	10.00	9.00	12.74	13.62	18.37

SUMMARY

TOTAL DRAINAGE AREA OF LAKE = 10411.8
SUM OF SUB-DRAINAGE AREAS = 10421.4

TOTAL FLOW IN = 1380.22
TOTAL FLOW OUT = 1404.51

MEAN MONTHLY FLOWS AND DAILY FLOWS(CMS)

TRIBUTARY	MONTH	YEAR	MEAN FLOW	DAY	FLOW	DAY	FLOW	DAY	FLOW
0515A1	9	74	74.473	14	1.161				
	10	74	13.649	6	1.189				
	11	74	371.234	3	1.274				
	12	74	200.625	8	164.238				
	1	75	176.131	5	85.517				
	2	75	231.915	9	167.919				
	3	75	392.471	2	305.822				
	4	75	270.143	6	421.921	19	81.269		
	5	75	149.796	4	1.161	8	328.475	18	26.363
	6	75	72.774	8	16.990				
	7	75	89.481	1	51.829				
	8	75	121.762	17	180.661				
0515A2	9	74	65.695	14	46.723				
	10	74	22.908	6	6.513				
	11	74	155.459	3	861.682				
	12	74	37.378						
	1	75	40.493	5	37.378				
	2	75	126.859	9	51.537				
	3	75	139.602	2	82.685				
	4	75	48.988	6	45.873	19	26.759		
	5	75	26.759	3	52.952	8	33.980	18	35.962
	6	75	24.154	8	29.166	21	20.162		
	7	75	7.504						
	8	75	10.732	17	30.865				

TRIBUTARY FLOW INFORMATION FOR ARKANSAS 02/02/77

LAKE CODE 0515 TABLE ROCK RESERVOIR

MEAN MONTHLY FLOWS AND DAILY FLOWS(CMS)

TRIBUTARY	MONTH	YEAR	MEAN FLOW	DAY	FLOW	DAY	FLOW	DAY	FLOW
0515F1	9	74	0.425	14	0.170				
	10	74	0.167	6	0.113				
	11	74	0.963	3	1.189				
	12	74	0.244	8	0.340				
	1	75	0.481	5	0.680				
	2	75	1.388	9	0.453				
	3	75	2.407	2	2.407				
	4	75	0.623	6	0.708	19	0.311		
	5	75	0.651	4	1.076	18	0.311		
	6	75	0.396	8	0.269				
	7	75	0.227	13	0.212				
	8	75	0.057	17	0.042				
0515G1	9	74	0.906	14	1.274				
	10	74	0.340	6	0.623				
	11	74	2.464	3	7.079				
	12	74	0.566	8	2.690				
	1	75	1.189	5	3.964				
	2	75	3.058	9	3.115				
	3	75	4.984	2	7.362				
	4	75	1.388	6	3.313	19	1.841		
	5	75	1.416	4	3.964	18	1.416		
	6	75	0.906	8	1.642	26	1.557		
	7	75	0.708						
	8	75	0.340	17	0.510				
0515H1	9	74	0.340	14	0.028				
	10	74	0.127	6	0.088				
	11	74	0.708	3	0.850				
	12	74	0.184	8	0.0				
	1	75	0.368	5	0.425				
	2	75	1.076	9	0.283				
	3	75	1.841	2	1.699				
	4	75	0.481	6	0.425	19	0.241		
	5	75	0.510	3	0.991	18	0.283		
	6	75	0.311	8	0.212	26	0.198		
	7	75	0.227						
	8	75	0.034	17	0.0				
0515J1	9	74	11.072	14	12.743				
	10	74	4.842	5	3.341				
	11	74	65.978	3	328.475				
	12	74	15.688	8	45.307				
	1	75	17.330	5	22.908				
	2	75	53.519	9	30.582				
	3	75	60.315	2	38.511				
	4	75	17.415	7	21.153	19	11.497		
	5	75	9.883	4	15.659	18	6.881		
	6	75	4.644	8	2.662				
	7	75	3.115	7	1.048				
	8	75	1.557	17	1.501				

TRIBUTARY FLOW INFORMATION FOR ARKANSAS 02/02/77

LAKE CODE 0515 TABLE ROCK RESERVOIR

MEAN MONTHLY FLOWS AND DAILY FLOWS(CMS)

TRIBUTARY	MONTH	YEAR	MEAN FLOW	DAY	FLOW	DAY	FLOW	DAY	FLOW
0515X1	9	74	2.690	14	0.850				
	10	74	1.133	6	0.708				
	11	74	9.203	3	14.158				
	12	74	1.982	8	4.248				
	1	75	4.389	5	8.495				
	2	75	10.194	9	4.672				
	3	75	15.574	2	16.990				
	4	75	4.672	7	5.380	19	2.549		
	5	75	4.248	4	7.929	8	5.097	18	2.039
	6	75	2.265						
	7	75	1.274	7	1.274				
	8	75	0.396	17	0.425				
0515L1	9	74	0.991	14	0.708				
	10	74	0.425	6	0.340				
	11	74	2.265	3	4.248				
	12	74	0.566	8	1.416				
	1	75	1.274	5	2.549				
	2	75	3.398	9	2.124				
	3	75	5.239	2	5.663				
	4	75	1.557	7	2.124	19	1.076		
	5	75	1.416	4	2.690	8	1.699	18	1.133
	6	75	0.850						
	7	75	0.566	7	0.623				
	8	75	0.113	17	0.283				
0515ZZ	9	74	19.454						
	10	74	7.985						
	11	74	67.111						
	12	74	16.820						
	1	75	22.115						
	2	75	56.634						
	3	75	70.509						
	4	75	24.777						
	5	75	16.141						
	6	75	13.026						
	7	75	4.672						
	8	75	2.747						

TRIBUTARY FLOW INFORMATION FOR ARKANSAS 02/02/77

LAKE CODE 0504 BULL SHOALS RESERVOIR

TOTAL DRAINAGE AREA OF LAKE(SQ KM) 15672.1

TRIBUTARY	SUB-DRAINAGE AREA(SQ KM)	NORMALIZED FLOWS(CMS) JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
0504A1	15672.1	155.97	155.20	165.85	199.95	221.13	204.02	215.21	181.65	136.69	120.43	116.30	142.15	168.02
0504D1	77.2	0.85	1.16	1.31	1.48	1.59	0.63	0.21	0.14	0.13	0.19	0.40	0.52	0.71
0504E1	68.9	0.76	1.03	1.17	1.32	1.42	0.56	0.19	0.12	0.12	0.17	0.37	0.46	0.64
0504F1	344.5	3.85	5.24	5.95	6.68	7.19	2.83	0.95	0.61	0.59	0.87	1.85	2.36	3.23
0504G1	76.7	0.64	0.82	1.01	1.27	1.28	0.88	0.55	0.36	0.27	0.33	0.44	0.46	0.69
0504H1	11297.6	110.52	132.04	135.24	162.31	222.51	148.78	119.24	107.63	87.16	69.80	94.66	93.08	123.52
0504J1	440.3	4.62	5.89	7.25	9.15	9.20	6.34	3.99	2.58	1.94	2.40	3.14	3.28	4.97
0504L1	924.6	7.67	9.80	12.03	15.15	15.23	10.53	6.60	4.28	3.20	3.99	5.21	5.44	8.25
0504M1	113.4	1.00	1.27	1.57	1.97	1.99	1.37	0.86	0.56	0.42	0.52	0.68	0.71	1.07
0504Q1	29.8	0.221	0.283	0.348	0.436	0.439	0.303	0.190	0.125	0.093	0.113	0.150	0.156	0.238
0504R1	111.4	0.98	1.25	1.54	1.93	1.95	1.35	0.84	0.55	0.41	0.51	0.67	0.69	1.05
0504T1	93.8	0.81	1.03	1.27	1.59	1.60	1.11	0.69	0.45	0.34	0.42	0.55	0.57	0.87
0504W1	161.4	1.49	1.90	2.34	2.94	2.94	2.04	1.28	0.83	0.62	0.77	1.01	1.05	1.60
0504X1	83.7	0.71	0.90	1.11	1.40	1.41	0.97	0.61	0.39	0.30	0.37	0.48	0.50	0.76
0504ZZ	1849.0	20.98	25.77	32.42	36.50	39.28	15.46	5.18	3.31	3.23	4.79	10.08	12.88	17.44

SUMMARY

TOTAL DRAINAGE AREA OF LAKE = 15672.1
SUM OF SUB-DRAINAGE AREAS = 15672.1

TOTAL FLOW IN = 1982.55
TOTAL FLOW OUT = 2014.54

MEAN MONTHLY FLOWS AND DAILY FLOWS(CMS)

TRIBUTARY	MONTH	YEAR	MEAN FLOW	DAY	FLOW	DAY	FLOW	DAY	FLOW
0504A1	6	74	100.525	23	19.029				
	7	74	297.893	20	342.634				
	8	74	319.697	17	245.224				
	9	74	296.760	7	225.685				
	10	74	247.206	12	218.040				
	11	74	178.396	23	254.852				
	12	74	402.099	22	444.574				
	1	75	423.337	18	433.248				
	2	75	288.549	15	362.456				
	3	75	352.261	8	470.060	15	339.802		
	4	75	554.161	6	671.109	19	484.218		
	5	75	289.398	3	630.899	4	625.802		
0504D1	6	74	3.285	23	0.991				
	7	74	0.125	20	0.255				
	8	74	0.074	17	0.708				
	9	74	0.184	7	0.708				
	10	74	0.311	12	0.113				
	11	74	4.078	24	0.566				
	12	74	0.793	21	0.878				
	1	75	1.388	19	2.124				
	2	75	2.294	16	0.793				
	3	75	3.681	8	0.623	16	3.398		
	4	75	1.246	5	1.416	20	1.303		
	5	75	0.620	4	0.504				

TRIBUTARY FLOW INFORMATION FOR ARKANSAS 02/02/77

LAKE CODE 0504 BULL SHOALS RESERVOIR

MEAN MONTHLY FLOWS AND DAILY FLOWS(CMS)

TRIBUTARY	MONTH	YEAR	MEAN FLOW	DAY	FLOW	DAY	FLOW	DAY	FLOW
0504E1	6	74	2.945	23	0.340				
	7	74	0.110	20	0.085				
	8	74	0.065	17	0.566				
	9	74	0.164	7	0.566				
	10	74	0.255	12	0.113				
	11	74	3.625	24	0.425				
	12	74	0.708	21	0.765				
	1	75	1.246	19	1.897				
	2	75	2.039	16	0.708				
	3	75	3.285	8	0.566	16	3.002		
	4	75	1.110	5	1.246	20	1.161		
	5	75	0.555	4	0.450				
0504F1	6	74	14.668	23	2.124				
	7	74	0.558	20	0.765				
	8	74	0.326	17	3.398				
	9	74	0.824	7	3.398				
	10	74	1.331	12	0.566				
	11	74	18.179	24	2.549				
	12	74	3.540	21	3.964				
	1	75	6.258	19	9.345				
	2	75	10.222	16	3.540				
	3	75	16.480	8	2.803	16	15.008		
	4	75	5.550	5	6.230	20	5.663		
	5	75	2.772	4	2.237				
0504G1	6	74	3.256	23	0.108				
	7	74	0.125	20	0.051				
	8	74	0.074	17	0.708				
	9	74	0.184	7	0.708				
	10	74	0.311	12	0.042				
	11	74	4.049	24	0.425				
	12	74	0.793	21	0.850				
	1	75	1.388	19	2.095				
	2	75	2.265	16	0.793				
	3	75	3.681	8	0.623	16	3.398		
	4	75	1.237	5	1.388	20	1.529		
	5	75	0.617	4	0.498				
0504H1	6	74	325.644	23	402.666				
	7	74	157.725	20	141.018				
	8	74	163.671	17	129.408				
	9	74	75.889	7	2.549				
	10	74	14.923	12	2.549				
	11	74	373.216	24	420.222				
	12	74	201.899	21	149.796				
	1	75	177.547	19	86.366				
	2	75	233.048	16	329.325				
	3	75	393.887	8	423.620	16	421.071		
	4	75	271.842	5	422.487	20	48.422		
	5	75	151.099	4	2.549				

TRIBUTARY FLOW INFORMATION FOR ARKANSAS 02/02/77

LAKE CODE 0504 BULL SHOALS RESERVOIR

MEAN MONTHLY FLOWS AND DAILY FLOWS(CMS)

TRIBUTARY	MONTH	YEAR	MEAN FLOW	DAY	FLOW	DAY	FLOW	DAY	FLOW
0504J1	6	74	18.774	23	1.586				
	7	74	0.714	20	0.510				
	8	74	0.416	17	4.248				
	9	74	1.051	7	4.248				
	10	74	1.699	12	0.340				
	11	74	23.220	24	2.549				
	12	74	4.531						
	1	75	7.985	19	12.035				
	2	75	13.082	16	4.531				
	3	75	21.068	8	3.568	16	19.255		
	4	75	7.108	20	7.362				
	5	75	3.540	4	2.832				
0504L1	6	74	39.360	23	5.522				
	7	74	1.495	20	2.152				
	8	74	0.875	17	8.495				
	9	74	2.209	7	8.495				
	10	74	3.596	12	1.699				
	11	74	48.705	24	5.663				
	12	74	9.543	21	10.477				
	1	75	16.764	19	25.202				
	2	75	27.439	16	9.543				
	3	75	44.174	8	7.504	16	40.210		
	4	75	14.923	5	16.849				
	5	75	7.447	4	6.031				
0504M1	6	74	4.842	23	0.388				
	7	74	0.184						
	8	74	0.108	17	1.133				
	9	74	0.272	7	1.133				
	10	74	0.453						
	11	74	5.975						
	12	74	1.161						
	1	75	2.067	18	3.115				
	2	75	3.370	15	1.218				
	3	75	5.437	8	0.906	15	4.389		
	4	75	1.829	6	1.982				
	5	75	0.912	3	3.823				
0504O1	6	74	1.274	23	0.088				
	7	74	0.048	20	0.040				
	8	74	0.028	17	0.003				
	9	74	0.071	21	0.0				
	10	74	0.113	12	0.003				
	11	74	1.557	24	0.212				
	12	74	0.311	22	0.088				
	1	75	0.538	18	0.821				
	2	75	0.878	15	0.311				
	3	75	1.416	8	0.241	15	1.133		
	4	75	0.481	6	0.566	19	0.595		
	5	75	0.241	3	1.005				

TRIBUTARY FLOW INFORMATION FOR ARKANSAS 02/02/77

LAKE CODE 0504 BULL SHOALS RESERVOIR

MEAN MONTHLY FLOWS AND DAILY FLOWS(CMS)

TRIBUTARY	MONTH	YEAR	MEAN FLOW	DAY	FLOW	DAY	FLOW	AY	FLOW
0504R1	6	74	4.757	23	0.496				
	7	74	0.181	20	0.099				
	8	74	0.105	17	1.133				
	9	74	0.266	7	1.133				
	10	74	0.425	12	0.057				
	11	74	5.862	24	0.651				
	12	74	1.161	23	0.850				
	1	75	2.010	18	3.115				
	2	75	3.313	15	1.189				
	3	75	5.324	8	0.906	15	4.248		
	4	75	1.795	6	1.982	19	2.209		
	5	75	0.895	3	3.766				
0504T1	6	74	3.993	23	1.133				
	7	74	0.153	20	0.453				
	8	74	0.088	17	0.991				
	9	74	0.224	7	0.991				
	10	74	0.368	12	0.340				
	11	74	4.955	24	0.793				
	12	74	0.963	22	0.272				
	1	75	1.699	18	2.549				
	2	75	2.775	15	0.991				
	3	75	4.474	8	0.765	15	3.540		
	4	75	1.512	6	1.699	19	1.869		
	5	75	0.753	3	3.171				
0504W1	6	74	6.881	23	1.756				
	7	74	0.261	20	0.566				
	8	74	0.153	17	1.416				
	9	74	0.385	7	1.416				
	10	74	0.626	12	0.368				
	11	74	8.523	24	1.076				
	12	74	1.665	22	0.481				
	1	75	2.917	18	4.389				
	2	75	4.786	15	1.699				
	3	75	7.730	8	1.303	15	6.230		
	4	75	2.602	6	2.832	19	3.256		
	5	75	1.300	3	5.437	7	5.663		
0504X1	6	74	3.568	23	1.416				
	7	74	0.136	20	0.099				
	8	74	0.079	17	0.708				
	9	74	0.201	7	0.708				
	10	74	0.326	12	0.042				
	11	74	4.417	24	0.453				
	12	74	0.864	22	0.244				
	1	75	1.518	18	1.897				
	2	75	2.483	15	0.906				
	3	75	3.993	8	0.680	15	3.256		
	4	75	1.348	6	1.416	20	1.416		
	5	75	0.674	3	2.823				

TRIBUTARY FLOW INFORMATION FOR ARKANSAS 02/02/77

LAKE CODE 0504 BULL SHOALS RESERVOIR

MEAN MONTHLY FLOWS AND DAILY FLOWS(CMS)

TRIBUTARY	MONTH	YEAR	MEAN FLOW	DAY	FLOW	DAY	FLOW	DAY	FLOW
050422	6	74	78.721	23	11.044				
	7	74	3.002	20	4.248				
	8	74	1.747	17	16.990				
	9	74	4.417	7	16.990				
	10	74	7.192	12	3.398				
	11	74	97.410	23	14.158	24	14.158		
	12	74	19.086	21	20.813	22	5.663	23	5.663
	1	75	33.414	18	42.475	19	50.970		
	2	75	54.935	15	19.822	16	18.972		
	3	75	88.632	8	15.008	15	70.792	16	80.703
	4	75	29.874	6	33.980	19	36.812	19	36.812
	5	75	14.866	3	62.297	4	12.035		

TRIBUTARY FLOW INFORMATION FOR MISSOURI 02/24/77

LAKE CODE 2904 LAKE TANEYCOMO

TOTAL DRAINAGE AREA OF LAKE(SQ KM) 11297.6

TRIBUTARY	SUB-DRAINAGE AREA(SQ KM)	NORMALIZED FLOWS(CMS) JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
2904A1	11297.6	110.44	131.96	135.35	162.26	222.57	148.66	119.24	107.60	87.22	69.66	94.58	93.16	123.49
2904A2	10417.0	105.34	124.59	125.16	151.21	209.54	140.73	112.98	104.49	83.82	65.98	90.90	89.76	116.98
2904B1	98.4	0.37	0.65	1.05	1.02	1.27	0.65	0.62	0.17	0.34	0.31	0.23	0.24	0.58
2904C1	523.2	3.06	4.59	6.48	7.19	7.90	4.93	3.45	1.39	1.59	2.21	1.98	1.87	3.88
2904D1	84.1	0.31	0.59	0.93	0.91	1.13	0.57	0.57	0.14	0.31	0.28	0.19	0.21	0.51
2904ZZ	170.9	1.67	1.98	2.04	2.44	3.34	2.24	1.78	1.61	1.30	1.05	1.42	1.42	1.86

SUMMARY

TOTAL DRAINAGE AREA OF LAKE = 11297.6
SUM OF SUB-DRAINAGE AREAS = 11297.6

TOTAL FLOW IN = 1486.50
TOTAL FLOW OUT = 1482.70

MEAN MONTHLY FLOWS AND DAILY FLOWS(CMS)

TRIBUTARY	MONTH	YEAR	MEAN FLOW	DAY	FLOW	DAY	FLOW	DAY	FLOW
2904A1	9	74	132.523	14	3.653				
	10	74	15.688	5	2.605				
	11	74	390.772	2	21.238				
	12	74	206.713	7	164.521				
	1	75	185.475	4	165.654				
	2	75	251.170	8	181.228				
	3	75	421.921	8	444.574				
	4	75	281.639	5	438.911	19	86.650		
	5	75	158.574	3	21.804	17	11.185		
	6	75	78.721	7	62.014				
	7	75	92.879	13	3.794				
	8	75	124.311	9	79.854				
2904A2	9	74	74.473	14	1.133				
	10	74	13.649	5	1.189				
	11	74	371.234	2	1.274				
	12	74	201.050	7	158.291				
	1	75	176.131	4	145.832				
	2	75	231.915	8	171.317				
	3	75	392.471	8	421.921				
	4	75	270.143	5	421.921	19	81.269		
	5	75	149.796	3	1.133	17	7.674		
	6	75	72.774	7	57.483				
	7	75	89.481	13	1.133				
	8	75	121.762	9	77.871				

TRIBUTARY FLOW INFORMATION FOR MISSOURI 02/24/77

LAKE CODE 2904 LAKE TANEYCOMO

MEAN MONTHLY FLOWS AND DAILY FLOWS(CMS)

TRIBUTARY	MONTH	YEAR	MEAN FLOW	DAY	FLOW	DAY	FLOW	AY	FLOW
2904B1	9	74	0.538	14	0.198				
	10	74	0.198	5	0.113				
	11	74	1.331	2	0.708				
	12	74	0.311	7	0.425				
	1	75	0.651	4	1.416				
	2	75	1.756	8	0.850				
	3	75	2.973	8	2.124				
	4	75	0.821	5	1.274	19	0.510		
	5	75	0.821	3	1.841	17	0.425		
	6	75	0.510	7	0.425				
	7	75	0.269	13	0.170				
	8	75	0.071	9	0.028				
2904C1	9	74	2.549	14	1.557				
	10	74	1.416	5	0.991				
	11	74	11.610	2	7.079				
	12	74	2.549	7	2.549				
	1	75	5.380	4	11.327				
	2	75	12.318	8	5.663				
	3	75	18.406	8	14.158				
	4	75	5.663	5	8.495	19	3.115		
	5	75	5.097	3	11.327				
	6	75	3.823	7	2.690				
	7	75	1.416	13	1.133				
	8	75	0.510	9	0.340				
2904D1	9	74	0.510	14	0.170				
	10	74	0.184	5	0.085				
	11	74	1.133	2	0.850				
	12	74	0.283	7	0.340				
	1	75	0.566	4	1.416				
	2	75	1.557	8	0.708				
	3	75	2.690	8	1.841				
	4	75	0.708	5	1.133	19	0.425		
	5	75	0.708	3	1.841				
	6	75	0.425	7	0.340				
	7	75	0.255	13	0.227				
	8	75	0.057	9	0.028				
2904ZZ	9	74	1.189						
	10	74	0.235						
	11	74	5.862						
	12	74	3.115						
	1	75	2.775						
	2	75	3.766						
	3	75	6.343						
	4	75	4.219						
	5	75	2.379						
	6	75	1.189						
	7	75	1.388						
	8	75	1.869						

APPENDIX C

PHYSICAL AND CHEMICAL DATA

STORET RETRIEVAL DATE 77/02/02

050101
36 25 15.0 093 51 05.0 3
BEAVER LAK
05015 ARKANSAS
100591

/TYPA/AMBNT/LAKE

11EPALES 04001002
0200 FEET DEPTH CLASS 00

DATE FROM TO	TIME OF DAY	DEPTH FEET	00010 WATER TEMP CENT	00300 DO MG/L	00077 TRANSP SECCHI INCHES	00094 CNDUCTVY FIELD MICROMHO	00400 PH SU	00410 T ALK CACO3 MG/L	00610 NH3-N TOTAL MG/L	00625 TOT KJEL N MG/L	00630 NO2&NO3 N-TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P
74/04/05	09 45	0000	11.7		90	93	7.65	54	0.060	0.200K	0.240	0.004
	09 45	0005	11.6	10.0		92	7.60	50	0.030	0.200	0.210	0.006
	09 45	0015	11.6	10.0		92	7.78	50	0.040	0.200K	0.220	0.010
	09 45	0050	11.5	10.0		106	7.70	48	0.060	0.200K	0.240	0.009
	09 45	0100	8.4	9.6		100	7.30	48	0.050	0.200K	0.250	0.007
	09 45	0150	7.5	8.8		99	7.10	45	0.060	0.200K	0.280	0.008
	09 45	0200	7.3	8.4		99	6.90	43	0.060	0.400	0.290	0.010
74/06/18	09 40	0000	24.5		156	122	8.70	42	0.030	0.300	0.110	0.002
	09 40	0005	24.4	9.0		120	8.70	43	0.020	0.200K	0.080	0.002
	09 40	0015	24.2	9.0		118	8.50	42	0.030	0.200K	0.080	0.005
	09 40	0025	21.9	7.8		113	8.20	45	0.060	0.200	0.140	0.009
	09 40	0040	20.4	5.8		108	7.60	44	0.030	0.200K	0.190	0.004
	09 40	0055	16.5	6.4		95	7.50	46	0.020	0.200K	0.230	0.002
	09 40	0090	12.6	7.8		84	7.60	45	0.020K	0.200K	0.270	0.002K
	09 40	0130	10.8	7.6		80	7.50	45	0.020K	0.200K	0.280	0.004
	09 40	0171	8.5	5.4		72	7.30	42	0.020	0.200K	0.360	0.013
74/08/30	14 30	0000	26.3	7.6	198	131	8.40	57	0.040	0.400	0.040	0.002
	14 30	0010	26.3	7.5		130	8.60	57	0.040	0.200	0.020	0.003
	14 30	0020	26.3	7.8		131	8.60	58	0.030	0.400	0.020	0.002
	14 30	0038	20.4	0.4		113	7.70	56	0.130	0.200	0.230	0.003
	14 30	0060	17.6	1.0		106	7.35	54	0.040	0.200	0.370	0.002
	14 30	0090	13.3	4.2		91	7.35	56	0.030	0.300	0.440	0.003
	14 30	0120	11.3	4.4		83	7.30	54	0.060	0.200	0.500	0.004
	14 30	0145	10.1	2.0		81	7.20	54	0.020K	0.200	0.540	0.004
	14 30	0170	9.2	0.6		83	7.15	60	0.100	0.300	0.460	0.006
74/10/09	10 20	0000	19.6	7.6	216	105	7.15	64	0.040	0.400	0.070	0.007
	10 20	0005	19.6	7.2		106	7.30	61	0.020	0.200K	0.060	0.004
	10 20	0015	19.6	7.0		110	7.28	62	0.030	0.200	0.060	0.004
	10 20	0030	19.6	5.0		105	7.22	62	0.030	0.200K	0.060	0.005
	10 20	0045	19.6	7.2		103	7.17	61	0.020	0.200K	0.060	0.004
	10 20	0060	19.6	6.4		98	7.03	60	0.020K	0.200K	0.060	0.003
	10 20	0090	14.5	1.8		83	6.52	59	0.020K	0.200K	0.420	0.002
	10 20	0120	11.8	2.8		75	6.56	56	0.020K	0.200K	0.520	0.003
	10 20	0150	10.4	0.2		75	6.59	60	0.080	0.200	0.420	0.005
	10 20	0175	9.5	2.4		79	6.70	68	0.270	0.400	0.210	0.009

K VALUE KNOWN TO BE
LESS THAN INDICATED

STORET RETRIEVAL DATE 77/02/02

050101
36 25 15.0 093 51 05.0 3
BEAVER LAK
05015 ARKANSAS
100591

/TYPA/AMBNT/LAKE

11EPALES 04001002
0200 FEET DEPTH CLASS 00

DATE FROM TO	TIME OF DAY	DEPTH FEET	00665 PHOS-TOT MG/L P	32217 CHLRPHYL A UG/L	00031 INCDT LT REMNING PERCENT
74/04/05	09 45	0000	0.009	1.7	
	09 45	0005	0.009		
	09 45	0015	0.016		
	09 45	0050	0.010		
	09 45	0100	0.011		
	09 45	0150	0.012		
	09 45	0200	0.100		
74/06/18	09 40	0000	0.010	3.3	
	09 40	0002			50.0
	09 40	0005	0.009		
	09 40	0015	0.008		
	09 40	0025	0.013		
	09 40	0027			1.0
	09 40	0040	0.009		
	09 40	0055	0.007		
	09 40	0090	0.010		
	09 40	0130	0.012		
	09 40	0171	0.022		
74/08/30	14 30	0000	0.014	2.4	
	14 30	0003			50.0
	14 30	0010	0.012		
	14 30	0020	0.012		
	14 30	0038	0.012		1.0
	14 30	0060	0.011		
	14 30	0090	0.009		
	14 30	0120	0.011		
	14 30	0145	0.012		
	14 30	0170	0.017		
74/10/09	10 20	0000	0.016	3.5	
	10 20	0005	0.010		
	10 20	0015	0.010		
	10 20	0020			1.0
	10 20	0030	0.010		
	10 20	0045	0.012		
	10 20	0060	0.010		
	10 20	0090	0.008		
	10 20	0120	0.010		
	10 20	0150	0.016		
	10 20	0175	0.024		

STORET RETRIEVAL DATE 77/02/02

050102
36 22 12.0 093 53 18.0 3
BEAVER LAKE
05007 ARKANSAS

100591

/TYPA/AMBNT/LAKE

11EPALES 04001002
0165 FEET DEPTH CLASS 00

DATE FROM TO	TIME OF DAY	DEPTH FEET	00010 WATER TEMP CENT	00300 DO MG/L	00077 TRANSP SECCHI INCHES	00094 CNDUCTVY FIELD MICROMHO	00400 PH SU	00410 T ALK CACO3 MG/L	00610 NH3-N TOTAL MG/L	00625 TOT KJEL N MG/L	00630 NO2&NO3 N-TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P
74/04/05	10 25	0000	10.5		41	91	7.60	45	0.050	0.700	0.290	0.009
	10 25	0005	10.5	10.2		91	7.50	44	0.030	0.200	0.270	0.008
	10 25	0015	10.5	10.4		91	7.30	43	0.050	0.200	0.300	0.006
	10 25	0050	10.2	9.8		86	7.30	38	0.040	0.200	0.340	0.009
	10 25	0100	7.7	9.0		83	7.10	40	0.050	0.200	0.340	0.010
	10 25	0160	7.2	8.6		90	7.00	43	0.060	0.300	0.390	0.018
74/06/18	10 25	0000	24.6		160	123	8.60	45	0.020	0.200	0.150	0.004
	10 25	0005	24.6	9.2		122	8.60	48	0.020	0.200K	0.110	0.002K
	10 25	0015	23.5	9.2		116	8.60	49	0.030	0.200	0.120	0.002
	10 25	0025	21.7	6.8		108	7.70	47	0.040	0.200	0.160	0.003
	10 25	0040	19.6	5.0		102	7.30			0.200		
	10 25	0055	16.0	5.8		92	7.30	47	0.030	0.200K	0.350	0.007
	10 25	0075	13.3	7.4		84	7.30	47	0.020	0.200K	0.350	0.002
	10 25	0110	11.0	7.4		74	7.20	42	0.040	0.200K	0.510	0.008
	10 25	0140	8.9	5.0		71	7.10	39	0.030	0.200K	0.540	0.010
	10 25	0161	8.7	4.6		76	7.00	38	0.030	0.300	0.580	0.014
74/08/30	13 45	0000	25.9	7.2	144	129	8.30	60	0.030	0.400	0.040	0.005
	13 45	0010	25.8	7.0		128	8.30	60	0.030	0.300	0.030	0.003
	13 45	0020	25.8	7.2		129	8.30	61	0.020	0.300	0.030	0.002
	13 45	0036	22.3	4.0		112	7.70	58	0.030	0.300	0.150	0.002
	13 45	0050	18.3	0.2		89	7.50	49	0.030	0.300	0.370	0.002
	13 45	0085	13.6	3.5		92	7.40	56	0.020	0.300	0.500	0.003
	13 45	0120	11.0	1.4		85	7.20	54	0.040	0.200	0.570	0.004
	13 45	0150	9.9	0.3		94	7.20	65	0.220	0.500	0.370	0.007
74/10/09	13 45	0000	19.6	6.8	144	106	7.30	63	0.040	0.200	0.060	0.006
	13 45	0005	19.5	7.0		103	7.19	62	0.020	0.200	0.040	0.003
	13 45	0015	19.5	7.0		104	7.19	64	0.030	0.200K	0.050	0.002
	13 45	0030	19.5	7.0		105	7.14	62	0.020	0.200K	0.040	0.002
	13 45	0045	19.5	7.2		99	7.08	63	0.030	0.200	0.040	0.002K
	13 45	0060	19.4	6.2		88	6.72	61	0.030	0.300	0.060	0.002
	13 45	0090	14.6	1.2		87	6.57	60	0.020	0.200K	0.460	0.003
	13 45	0120	11.8	0.2		83	6.68	52	0.110	0.300	0.410	0.005
	13 45	0152	10.7	0.2		98	6.89	70	0.430	0.500	0.100	0.007

K VALUE KNOWN TO BE
LESS THAN INDICATED

STORET RETRIEVAL DATE 77/02/02

050102
36 22 12.0 093 53 18.0 3
BEAVER LAKE
05037 ARKANSAS
1005v1

/TYPA/AMBNT/LAKE

11EPALES 04001002
0165 FEET DEPTH CLASS 00

Reproduced from best available copy.

DATE FROM TO	TIME OF DAY	DEPTH FEET	00665 PHOS-TOT MG/L P	32217 CHLRPHYL A UG/L	00031 INCDT LT REMNING PERCENT
74/04/05	10	25 0000	0.018	3.4	
	10	25 0005	0.016		
	10	25 0015	0.015		
	10	25 0050	0.018		
	10	25 0100	0.014		
	10	25 0160	0.053		
74/06/18	10	25 0000	0.009	1.6	
	10	25 0002			50.0
	10	25 0005	0.008		
	10	25 0015	0.009		
	10	25 0025	0.013		
	10	25 0030			1.0
	10	25 0040	0.012		
	10	25 0055	0.009		
	10	25 0075	0.010		
	10	25 0110	0.021		
	10	25 0140	0.027		
	10	25 0161	0.065		
74/08/30	13	45 0000	0.013	2.8	
	13	45 0010	0.010		
	13	45 0020	0.012		
	13	45 0036	0.013		1.0
	13	45 0050	0.013		
	13	45 0085	0.011		
	13	45 0120	0.017		
	13	45 0150	0.018		
74/10/09	13	45 0000	0.014	2.7	
	13	45 0001			50.0
	13	45 0005	0.010		
	13	45 0015	0.011		
	13	45 0020			1.0
	13	45 0030	0.010		
	13	45 0045	0.013		
	13	45 0060	0.010		
	13	45 0090	0.004		
	13	45 0120	0.006		
	13	45 0152	0.035		

STORET RETRIEVAL DATE 77/02/02

050103
36 20 32.0 093 58 26.0 3
BEAVER LAKE
05007 ARKANSAS
100591

/TYPA/AMBNT/LAKE

11EPALES 04001002
0120 FEET DEPTH CLASS 00

DATE FROM TO	TIME OF DAY	DEPTH FEET	00010 WATER TEMP CENT	00300 DO MG/L	00077 TRANSP SECCHI INCHES	00094 CNDUCTVY FIELD MICROMHO	00400 PH SU	00410 T ALK CACO3 MG/L	00610 NH3-N TOTAL MG/L	00625 TOT KJEL N MG/L	00630 NO2&NO3 N-TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P
74/04/05	11	15 0000	10.8		40	87	7.50	40	0.060	0.400	0.600	0.015
	11	15 0005	10.7	10.2		86	7.50	41	0.050	0.200	0.600	0.011
	11	15 0015	10.7	10.0		84	7.50	40	0.040	0.200	0.590	0.014
	11	15 0050	10.7	10.0		80	7.30	38	0.050	0.200K	0.600	0.014
	11	15 0080	8.1	9.8		71	7.10	32	0.050	0.200	0.630	0.019
	11	15 0115	7.3	9.0		71	6.70	30	0.060	0.200	0.670	0.020
74/06/18	11	15 0000	25.1		125	121	8.60	42	0.030	0.500	0.210	0.003
	11	15 0005	25.0	9.4		117	8.60	38	0.040	0.300	0.160	0.004
	11	15 0015	23.5	8.8		111	8.40	41	0.030	0.300	0.180	0.003
	11	15 0035	19.5	5.0		87	7.20	32	0.080	0.300	0.370	0.015
	11	15 0055	18.1	4.2		91	7.20	34	0.060	0.300	0.460	0.025
	11	15 0070	13.0	5.8		89	7.10	38	0.040	0.200K	0.620	0.021
	11	15 0100	10.7	4.8		82	7.00	39	0.090	0.200K	0.650	0.008
	11	15 0121	9.7	2.6		85	7.00	41	0.070	0.200K	0.650	0.008
74/08/30	13	05 0000	26.1	7.2	108	126	8.00	60	0.030	0.500	0.020K	0.003
	13	05 0010	26.1	6.8		127	8.00	60	0.040	0.300	0.020	0.004
	13	05 0027	25.8	4.4		122	7.80	61	0.040	0.300	0.020	0.003
	13	05 0060	19.5	0.2		90	7.60	50	0.030	0.300	0.180	0.003
	13	05 0075	14.9	0.4		96	7.40	56	0.040	0.300	0.460	0.006
	13	05 0110	11.3	0.6		112	7.30	75	0.370	0.600	0.210	0.007
74/10/09	14	30 0000	19.7	8.0	84	108	7.24	57	0.050	0.600	0.040	0.004
	14	30 0005	19.4	6.8		107	7.13	58	0.050	0.300	0.040	0.004
	14	30 0015	19.4	6.8		107	7.13	59	0.040	0.200	0.030	0.002
	14	30 0030	19.4	6.8		106	7.09	60	0.050	0.200	0.040	0.003
	14	30 0045	19.4	6.6		105	7.02	58	0.050	0.300	0.040	0.005
	14	30 0060	19.3	6.0		100	6.77	56	0.060	0.300	0.040	0.004
	14	30 0075	16.9	0.2		92	6.51	55	0.130	0.600	0.160	0.006
	14	30 0084	16.0	0.4		102	6.56	56	0.160	0.800	0.160	0.007

K VALUE KNOWN TO BE
LESS THAN INDICATED

STORET RETRIEVAL DATE 77/02/02

050103
36 20 32.0 093 58 26.0 3
BEAVER LAKE
05007 ARKANSAS
100571

/TYPA/AMBNT/LAKE

11EPALES 04001002
0120 FEET DEPTH CLASS 00

DATE FROM TO	TIME OF DAY	DEPTH FEET	00665 PHOS-TOT MG/L P	32217 CHLRPHYL A UG/L	00031 INCDT LT REMNING PERCENT
74/04/05	11	15 0000	0.040	6.5	
	11	15 0005	0.036		
	11	15 0015	0.035		
	11	15 0050	0.036		
	11	15 0080	0.053		
	11	15 0115	0.049		
74/06/18	11	15 0000	0.015	1.0	
	11	15 0005	0.016		
	11	15 0015	0.023		
	11	15 0035	0.048		
	11	15 0055	0.051		
	11	15 0070	0.018		
	11	15 0100	0.019		
	11	15 0121	0.018		
74/08/30	13	05 0000	0.022	3.0	
	13	05 0002			50.0
	13	05 0010	0.015		
	13	05 0027	0.015		1.0
	13	05 0060	0.019		
	13	05 0075	0.024		
	13	05 0110	0.036		
74/10/09	14	30 0000	0.016	3.9	
	14	30 0005	0.011		
	14	30 0015	0.011		
	14	30 0017			1.0
	14	30 0030	0.011		
	14	30 0045	0.012		
	14	30 0060	0.017		
	14	30 0075	0.053		
	14	30 0084	0.136		

STORET RETRIEVAL DATE 77/02/02

050104
36 16 37.0 094 01 32.0 3
BEAVER LAKE
05007 ARKANSAS
100593

/TYPA/AMBNT/LAKE

11EPALES 04001002
0100 FEET DEPTH CLASS 00

DATE FROM TO	TIME OF DAY	DEPTH FEET	00010 WATER TEMP CENT	00300 DO MG/L	00077 TRANSP SECCHI INCHES	00094 CNDUCTVY FIELD MICROMHO	00400 PH SU	00410 T ALK CACO3 MG/L	00610 NH3-N TOTAL MG/L	00625 TOT KJEL N MG/L	00630 NO2&NO3 N-TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P
74/04/05	14	20 0000	11.3		24	91	7.35	33	0.060	0.300	0.570	0.015
	14	20 0005	11.3	10.0		91	7.30	33	0.050	0.200	0.560	0.014
	14	20 0015	11.1	9.4		91	7.30	31	0.070	0.200K	0.580	0.016
	14	20 0040	11.0	9.6		90	7.30	31	0.060	0.200K	0.580	0.015
	14	20 0075	8.3	8.6		81	6.90	28	0.060	0.200K	0.710	0.019
	14	20 0095	7.7	7.2		81	6.80	29	0.060	0.200K	0.740	0.015
74/06/17	11	35 0000	24.8		65	119	8.60	29	0.060	0.500	0.140	0.006
	11	35 0005	24.5	8.6		118	8.10	29	0.070	0.300	0.120	0.004
	11	35 0010	24.2	7.4		114	8.30	29	0.060	0.300	0.110	0.004
	11	35 0015	21.5	6.0		105	7.30	29	0.080	0.300	0.190	0.005
	11	35 0025	19.4	5.0		71	7.30	22	0.100	0.400	0.220	0.021
-	11	35 0040	18.9	5.2		70	7.50	22	0.100	0.300	0.230	0.023
-#7	11	35 0055	18.4	4.6		88	7.50	25	0.100	0.300	0.270	0.023
-	11	35 0065	13.7	4.0		94	7.50	34	0.030	0.200	0.390	0.013
	11	35 0075	12.2	4.2		92	7.50	33	0.060	0.200	0.490	0.009
	11	35 0096	11.0	2.8		93	7.40	35	0.050	0.200	0.500	0.008
74/08/30	10	10 0000	26.0	6.2	104	124	7.80	60	0.040	0.700	0.030	0.004
	10	10 0010	25.9	6.0		124	7.80	58	0.040	0.400	0.020	0.004
	10	10 0023	25.3	3.0		124	7.40	59	0.040	0.400	0.020K	0.004
	10	10 0032	22.4	0.4		140	7.20	69	0.180	0.500	0.040	0.005
	10	10 0050	18.1	0.4		96	7.20	51	0.140	0.400	0.240	0.008
	10	10 0085	13.3	0.2		139	7.10	82	0.780	1.200	0.080	0.011
74/10/10	09	40 0000	19.5	6.6	48	95	6.77	54	0.100	0.700	0.150	0.007
	09	40 0005	19.4	5.6		100	6.87	53	0.160	0.300	0.170	0.005
	09	40 0015	19.4	5.4		98	6.84	51	0.110	0.300	0.170	0.005
	09	40 0030	19.4	5.4		97	6.79	52	0.110	0.300	0.170	0.005
	09	40 0045	19.3	5.4		102	6.78	53	0.100	0.300	0.150	0.005
	09	40 0065	18.4	1.4		84	6.45	49	0.240	0.400	0.330	0.006
	09	40 0092	15.2	0.2		160	6.91	91	1.270	1.700	0.030	0.009

K VALUE KNOWN TO BE
LESS THAN INDICATED

STORET RETRIEVAL DATE 77/02/02

050104
36 16 37.0 094 01 32.0 3
BEAVER LAKE
05007 ARKANSAS

100593

/TYPA/AMBNT/LAKE

11EPALES 04001002
0100 FEET DEPTH CLASS 00

DATE FROM TO	TIME OF DAY	DEPTH FEET	00665 PHOS-TOT MG/L P	32217 CHLRPHYL A UG/L	00031 INCDT LT REMNING PERCENT
74/04/05	14 20	0000	0.041	6.0	
	14 20	0005	0.037		
	14 20	0015	0.036		
	14 20	0040	0.038		
	14 20	0075	0.056		
	14 20	0095	0.091		
74/06/17	11 35	0000	0.042	2.2	
	11 35	0005	0.022		
	11 35	0010	0.021		
	11 35	0015	0.032		
	11 35	0025	0.066		
	11 35	0040	0.075		
	11 35	0055	0.090		
	11 35	0065	0.031		
	11 35	0075	0.023		
	11 35	0096	0.021		
74/08/30	10 10	0000	0.021	3.9	
	10 10	0010	0.021		
	10 10	0023	0.020		1.0
	10 10	0032	0.030		
	10 10	0050	0.058		
	10 10	0085	0.211		
74/10/10	09 40	0000	0.031	2.8	
	09 40	0005	0.020		
	09 40	0007			1.0
	09 40	0015	0.021		
	09 40	0030	0.022		
	09 40	0045	0.022		
	09 40	0065	0.042		
	09 40	0092	0.212		

STORET RETRIEVAL DATE 77/02/02

050105
36 13 49.0 093 59 49.0 3
BEAVER LAKE
05143 ARKANSAS

100591

/TYPA/AMBNT/LAKE

11EPALES 04001002
0065 FEET DEPTH CLASS 00

DATE FROM TO	TIME OF DAY	DEPTH FEET	00010 WATER TEMP CENT	00300 DO MG/L	00077 TRANSP SECCHI INCHES	00094 CNDUCTVY FIELD MICROMHO	00400 PH SU	00410 T ALK CACO3 MG/L	00610 NH3-N TOTAL MG/L	00625 TOT KJEL N MG/L	00630 NO2&NO3 N-TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P
74/04/03	15 40	0000	13.1		30	95	7.30	50	0.040	0.300	0.480	0.018
	15 40	0005	13.1	9.0		94	7.30	47	0.040	0.400	0.470	0.027
	15 40	0015	13.1	9.0		92	7.25	46	0.040	0.400	0.470	0.013
	15 40	0030	12.9	9.0		93	7.20	44	0.040	0.300	0.450	0.020
	15 40	0045	9.7	8.0		92	6.90	43	0.050	0.300	0.490	0.034
	15 40	0060	9.5	8.2		91	6.90	46	0.050	0.300	0.560	0.029
74/06/17	10 50	0000	23.8		10	85	7.70	21	0.060	0.800	0.150	0.009
	10 50	0005	23.2	3.2		78	7.10	20	0.060	0.400	0.140	0.009
	10 50	0010	27.6	4.2		73	6.50	20	0.090		0.150	0.013
	10 50	0015	20.0	5.4		61	6.90	16	0.080	0.400	0.160	0.018
	10 50	0020	19.5	5.4		71	6.30	19	0.070	0.300	0.190	0.020
	10 50	0045	19.0	4.0		74	7.10	18	0.150	0.600	0.240	0.023
	10 50	0063	18.2	3.6		115	7.20	31	0.160	0.400	0.430	0.028
74/08/30	10 45	0000	25.9	5.2	72	127	7.65	56	0.040	0.500	0.030	0.004
	10 45	0005	25.9	5.4		126	7.60	56	0.110	0.300	0.020	0.006
	10 45	0017	25.5	3.4		133	7.50	59	0.040	0.400	0.020K	0.007
	10 45	0030	23.4	0.2		188	7.15	86	0.540	0.800	0.060	0.007
	10 45	0045	19.1	0.1		182	7.10	91	1.320	1.400	0.040	0.020
74/10/10	10 55	0000	18.8	7.6	48	92	7.09	49	0.090	0.700	0.190	0.005
	10 55	0005	18.6	6.8		94	7.01	51	0.100	0.400	0.190	0.004
	10 55	0015	18.5	6.0		93	6.93	50	0.120	0.300	0.200	0.005
	10 55	0030	18.5	6.0		92	6.91	49	0.120	0.400	0.210	0.006
	10 55	0040	18.3	5.4		84	6.77	46	0.180	0.400	0.250	0.006
	10 55	0053	18.3	4.8		84	6.73	45	0.240	0.500	0.280	0.007

K VALUE KNOWN TO BE
LESS THAN INDICATED

STORET RETRIEVAL DATE 77/02/02

050105
36 13 49.0 093 59 49.0 3
BEAVER LAKE
05143 ARKANSAS

100591

/TYPA/AMBNT/LAKE

11EPALES 04001002
0065 FEET DEPTH CLASS 00

DATE FROM TO	TIME OF DAY	DEPTH FEET	00665 PHOS-TOT MG/L P	32217 CHLRPHYL A UG/L	00031 INCDT LT REMNING PERCENT
74/04/03	15 40	0000	0.046	7.6	
	15 40	0005	0.053		
	15 40	0015	0.046		
	15 40	0030	0.048		
	15 40	0045	0.051		
	15 40	0060	0.060		
74/06/17	10 50	0000	0.088	1.6	
	10 50	0005	0.074		
	10 50	0015	0.098		
	10 50	0020	0.090		
	10 50	0045	0.143		
	10 50	0063	0.122		
74/08/30	10 45	0000	0.040	6.2	
	10 45	0005	0.033		
	10 45	0017	0.043		1.0
	10 45	0030	0.117		
	10 45	0045	0.182		
74/10/10	10 55	0000	0.046	6.6	
	10 55	0005	0.040		
	10 55	0015	0.029		
	10 55	0030	0.035		
	10 55	0040	0.057		
	10 55	0053	0.075		

-27-

STORET RETRIEVAL DATE 77/02/02

050106
36 06 42.0 094 01 33.0 3
BEAVER LAKE
05143 ARKANSAS

100592

/TYPA/AMBNT/LAKE

11EPALES 04001002
0045 FEET DEPTH CLASS 00

DATE FROM TO	TIME OF DAY	DEPTH FEET	00010 WATER TEMP CENT	00300 DO MG/L	00077 TRANSP SECCHI INCHES	00094 CNDUCTVY FIELD MICROMHO	00400 PH SU	00410 T ALK CACO3 MG/L	00610 NH3-N TOTAL MG/L	00625 TOT KJEL N MG/L	00630 NO2&NO3 N-TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P
74/04/05	13 40	0000	12.8		25	92	7.20	35	0.140	0.400	0.430	0.040
	13 40	0005	12.8	9.2		91	7.10	34	0.120	0.200	0.420	0.039
	13 40	0015	12.7	8.8		92	7.00	35	0.130	0.200	0.420	0.037
	13 40	0030	12.5	9.0		93	7.10	34	0.120	0.200	0.420	0.035
	13 40	0040	11.1	9.0		89	6.90	32	0.130	0.200	0.430	0.027
74/06/17	10 35	0000	24.3		14	77	8.30	18	0.040	1.000	0.060	0.012
	10 35	0005	23.6	10.0		73	8.50	18	0.040	0.400	0.080	0.008
	10 35	0015	20.0	6.0		73	7.30	19	0.050	0.200	0.180	0.013
	10 35	0025	18.8	4.4		171	7.00	41	0.070	0.300	0.350	0.016
	10 35	0048	18.2	4.4		201	6.60	55	0.120	0.300	0.500	0.017
74/08/30	11 25	0000	25.7	5.2	42	150	7.45	67	0.030	0.800	0.040	0.005
	11 25	0005	25.7	5.0		151	7.45	67	0.030	0.700	0.040	0.005
	11 25	0015	25.5	4.2		148	7.40	66	0.090	0.500	0.030	0.005
	11 25	0025	24.6	0.8		190	7.25	89	0.260	0.700	0.120	0.009
	11 25	0035	21.9	0.4		242	7.10	116	1.390	1.800	0.040	0.005
74/10/10	11 30	0000	18.5	9.2	36	85	7.33	43	0.060	0.600	0.330	0.005
	11 30	0005	17.8	7.4		88	6.94	43	0.090	0.300	0.380	0.009
	11 30	0015	17.7	6.4		87	6.85	46	0.130	0.300	0.420	0.028
	11 30	0030	17.6	6.8		92	6.92	50	0.120	0.300	0.420	0.014
	11 30	0039	17.5	6.2		110	6.90	62	0.140	0.400	0.400	0.009

-87-

STORET RETRIEVAL DATE 77/02/02

050106
36 06 42.0 094 01 33.0 3
BEAVER LAKE
05143 ARKANSAS
100592

/TYPA/AMBNT/LAKE

11EPALES 04001002
0045 FEET DEPTH CLASS 00

DATE FROM TO	TIME OF DAY	DEPTH FEET	00665 PHOS-TOT MG/L P	32217 CHLRPHYL A UG/L	00031 INCDT LT REMNING PERCENT
74/04/05	13	40 0000	0.066	2.9	
	13	40 0005	0.068		
	13	40 0015	0.069		
	13	40 0030	0.065		
	13	40 0040	0.064		
74/06/17	10	35 0000	0.097	2.3	
	10	35 0005	0.057		
	10	35 0015	0.063		
	10	35 0025	0.060		
	10	35 0048	0.061		
74/08/30	11	25 0000	0.055	12.4	
	11	25 0005	0.044		
	11	25 0008			1.0
	11	25 0015	0.041		
	11	25 0025	0.069		
	11	25 0035	0.180		
74/10/10	11	30 0000	0.047	3.8	
	11	30 0005	0.039		
	11	30 0015	0.060		
	11	30 0030	0.049		
	11	30 0039	0.089		

STORET RETRIEVAL DATE 76/01/13
NATL EUTROPHICATION SURVEY
EPA-LAS VEGAS

051501
36 35 44.0 093 18 45.0
TABLE ROCK LAKE
05 ARKANSAS

11EPALES 2111202
3 0200 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00010 WATER TEMP CENT	00300 DO MG/L	00077 TRANSP SECCHI INCHES	00094 CNDUCTVY FIELD MICROMHO	00400 PH SU	00410 T ALK CACO3 MG/L	00610 NH3-N TOTAL MG/L	00625 TOT KJEL N MG/L	00630 NO2&NO3 N-TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P
74/04/05	15 20	0000	11.0		80	150	8.50	82	0.050	0.400	0.430	0.008
	15 20	0005	11.0	11.4		150	8.40	82	0.060	0.300	0.440	0.008
	15 20	0020	11.1	11.6		150	8.30	89	0.050	0.300	0.430	0.013
	15 20	0060	11.1	11.0		151	8.30	90	0.050	0.300	0.420	0.010
	15 20	0100	10.0	11.0		154	8.00	93	0.040	0.200	0.400	0.010
	15 20	0130	8.1	10.0		150	7.60	92	0.050	0.200K	0.510	0.011
	15 20	0200	6.6	9.0		140	7.30	88	0.060	0.200K	0.810	0.021
74/09/19	09 30	0000	25.1		75	187	8.90	98	0.050	0.900	0.180	0.007
	09 30	0005	25.0	10.4		186	8.90	97	0.040	0.500	0.150	0.002
	09 30	0020	24.3	10.0		182	8.80	97	0.040	0.400	0.170	0.002K
	09 30	0050	17.1	3.6		175	7.90	108	0.040	0.200	0.510	0.002K
	09 30	0080	13.3	5.8		138	7.90	94	0.050	0.200K	0.460	0.002K
	09 30	0120	12.3	6.4		145	7.90	91	0.050	0.200K	0.540	0.002K
	09 30	0175	9.8	4.8		150	7.70	96	0.040	0.200K	0.440	0.020
74/09/04	10 25	0000	23.3	7.0	126	187	7.90	102	0.070	0.600	0.090	0.003
	10 25	0010	23.3	6.8		187	8.00	93	0.050	0.300	0.060	0.002
	10 25	0023	23.3	6.6		188	8.00	93	0.040	0.300	0.050	0.002
	10 25	0045	18.7	0.4		213	7.60	117	0.090	0.300	0.310	0.002
	10 25	0080	15.9	0.8		164	7.55	97	0.050	0.200	0.560	0.004
	10 25	0125	13.4	3.4		122	7.50	78	0.050	0.200	0.460	0.010
	10 25	0170	11.6	0.8		166	7.40	107	0.210	0.400	0.510	0.037
74/10/11	12 00	0000	19.2	8.2	83	177	8.33	108	0.040	0.700	0.030	0.004
	12 00	0005	19.1	7.6		177	8.29	100	0.020	0.400	0.030	0.011
	12 00	0020	19.1	8.2		177	8.25	102	0.020	0.300	0.020K	0.008
	12 00	0040	19.1	7.8		177	8.21	102	0.030	0.200	0.020K	0.008
	12 00	0055	18.9	4.6		187	7.69	106	0.030	0.300	0.110	0.007
	12 00	0075	16.7	0.2		173	7.05	105	0.020K	0.200	0.400	0.007
	12 00	0090	16.0	0.2		159	7.01	95	0.020K	0.200K	0.440	0.008
	12 00	0120	14.5	0.4		127	6.93	86	0.030	0.200K	0.430	0.012
	12 00	0145	13.2	0.4		127	6.95	85	0.080	0.200K	0.420	0.022
	12 00	0171	12.0	0.0		161	7.17	109	0.370	0.600	0.180	0.037

-76-

__ K VALUE KNOWN TO BE LESS THAN INDICATED __

STORET RETRIEVAL DATE 76/01/13
NATL EUTHOPHICATION SURVEY
EPA-LAS VEGAS

051501
36 35 44.0 093 18 45.0
TABLE ROCK LAKE
05 ARKANSAS

11EPALES 2111202
3 0200 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00665 PHOS-TOT MG/L P	32217 CHLRPHYL A UG/L	00031 INCDT LT REMNING PERCENT
74/04/05	15 20	0000	0.030	12.4	
	15 20	0005	0.026		
	15 20	0020	0.031		
	15 20	0060	0.029		
	15 20	0100	0.027		
	15 20	0130	0.027		
	15 20	0200	0.034		
74/06/19	09 30	0000	0.024	5.7	
	09 30	0001			50.0
	09 30	0005	0.017		
	09 30	0020	0.017		1.0
	09 30	0050	0.009		
	09 30	0080	0.008		
	09 30	0120	0.007		
	09 30	0175	0.029		
74/09/04	10 25	0000	0.013	8.7	
	10 25	0010	0.011		
	10 25	0023	0.012		
	10 25	0045	0.011		
	10 25	0080	0.010		
	10 25	0125	0.017		
	10 25	0170	0.052		
74/10/11	12 00	0000	0.016	22.6	
	12 00	0001			50.0
	12 00	0005	0.015		
	12 00	0014			1.0
	12 00	0020	0.013		
	12 00	0040	0.013		
	12 00	0055	0.012		
	12 00	0075	0.010		
	12 00	0090	0.011		
	12 00	0120	0.015		
	12 00	0145	0.026		
	12 00	0171	0.056		

STORET RETRIEVAL DATE 76/01/13
NATL EUTROPHICATION SURVEY
EPA-LAS VEGAS

051502
36 31 36.0 093 1N 03.0
TABLE ROCK LAKE
05 ARKANSAS

11EPALES 2111202
3 0115 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00010 WATER TEMP CENT	00300 DO MG/L	00077 TRANSP SECCHI INCHES	00094 CNDUCTVY FIELD MICROMHO	00400 PH SU	00410 T ALK CACO3 MG/L	00610 NH3-N TOTAL MG/L	00625 TOT KJEL N MG/L	00630 NO2&NO3 N-TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P
74/04/05	16 05	0000	11.1		80	164	8.20	95	0.050	0.200K	0.460	0.004
	16 05	0005	11.1	10.8		164	8.20	94	0.040	0.200K	0.430	0.005
	16 05	0020	11.0	11.0		164	8.20	93	0.050	0.200K	0.450	0.008
	16 05	0040	10.9	10.8		164	8.10	94	0.040	0.200K	0.480	0.005
	16 05	0075	9.0	8.9		160	7.50	93	0.050	0.200K	0.530	0.004
	16 05	0110	8.8	8.0		183	7.50	93	0.050	0.200K	0.550	0.007
74/06/19	10 00	0000	25.4		85	190	8.90	89	0.040	0.300	0.220	0.004
	10 00	0005	25.6	11.2		190	8.90	88	0.030	0.400	0.140	0.002K
	10 00	0010	25.0	10.8		188	8.80	90	0.020	0.400	0.130	0.002K
	10 00	0020	22.1	8.0		188	8.40			0.300		
	10 00	0035	20.0	4.6		194	7.90	104	0.030	0.200	0.640	0.005
	10 00	0055	16.4	2.8		207	7.80	106	0.030	0.200	0.710	0.014
	10 00	0065	14.5	4.8		197	7.80	102	0.030	0.200K	0.600	0.005
	10 00	0075	13.7	4.6		198	7.70	107	0.050	0.200K	0.600	0.006
	10 00	0111	12.5	2.2		209	7.70	111	0.040	0.200K	0.570	0.006
74/09/04	11 00	0000	23.5	6.4	84	192	8.00	97	0.050	0.500	0.060	0.004
	11 00	0005	23.7	6.6		192	8.00	97	0.060	0.400	0.060	0.005
	11 00	0020	23.6	6.4		192	8.00	96	0.050	0.300	0.050	0.003
	11 00	0030	23.6	6.6		192	8.00	96	0.040	0.300	0.050	0.004
	11 00	0047	17.9	0.4		209	7.70	117	0.100	0.400	0.370	0.003
	11 00	0075	16.3	0.6		201	7.60	120	0.160	0.400	0.440	0.004
	11 00	0105	14.8	0.6		208	7.50	135	0.060	0.900	0.270	0.005
74/10/11	12 35	0000	19.9	9.8	52	189	8.43	102	0.040	1.000	0.040	0.006
	12 35	0005	19.5	9.8		187	8.43	107	0.040	0.300	0.020K	0.008
	12 35	0030	19.2	8.2		185	8.25	106	0.030	0.300	0.020	0.009
	12 35	0050	19.0	0.8		193	7.68	109	0.060	0.300	0.060	0.008
	12 35	0070	17.3	0.4		203	7.13	113	0.200	0.300	0.130	0.009
	12 35	0090	16.4	0.4		165	7.15	115	0.480	0.600	0.080	0.009
	12 35	0110	15.6	0.0		229	7.17	133	1.000	1.800	0.020K	0.008

— K VALUE KNOWN TO BE LESS THAN INDICATED —

STORET RETRIEVAL DATE 76/01/13
NATL EUTROPHICATION SURVEY
EPA-LAS VEGAS

051502
36 31 36.0 093 16 03.0
TABLE ROCK LAKE
05 ARKANSAS

11EPALES 2111202
3 0115 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00665 PHOS-TOT MG/L P	32217 CHLRPHYL A UG/L	00031 INCDT LT REMNING PERCENT
74/04/05	16 05	0000	0.026	6.8	
	16 05	0005	0.026		
	16 05	0020	0.027		
	16 05	0040	0.028		
	16 05	0075	0.028		
	16 05	0110	0.033		
74/06/19	10 00	0000	0.026	4.1	
	10 00	0001			50.0
	10 00	0005	0.020		
	10 00	0010	0.019		
	10 00	0015			1.0
	10 00	0020	0.014		
	10 00	0035	0.016		
	10 00	0055	0.026		
	10 00	0065	0.011		
	10 00	0075	0.011		
	10 00	0111	0.013		
74/09/04	11 00	0000	0.014	11.4	
	11 00	0005	0.015		
	11 00	0020	0.013		1.0
	11 00	0030	0.013		
	11 00	0047	0.018		
	11 00	0075	0.019		
	11 00	0105	0.068		
74/10/11	12 35	0000	0.021	30.9	
	12 35	0001			50.0
	12 35	0005	0.012		
	12 35	0011			1.0
	12 35	0030	0.015		
	12 35	0050	0.017		
	12 35	0070	0.027		
	12 35	0090	0.047		
	12 35	0110	0.191		

STORET RETRIEVAL DATE 76/01/13
NATL EUTROPHICATION SURVEY
EPA-LAS VEGAS

051503
36 37 29.0 093 25 07.0
TABLE ROCK LAKE
05 ARKANSAS

11EPALES 2111202
3 0180 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00010 WATER TEMP CENT	00300 DO MG/L	00077 TRANSP SECCHI INCHES	00094 CNDUCTVY FIELD MICROMHO	00400 PH SU	00410 T ALK CACO3 MG/L	00610 NH3-N TOTAL MG/L	00625 TOT KJEL N MG/L	00630 NO2&NO3 N-TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P
74/04/06	09 35	0000	10.4		70	144	8.00	93	0.040	0.300	0.610	0.011
	09 35	0005	10.3	10.6		144	8.00	91	0.020	0.200	0.590	0.012
	09 35	0015	10.3	10.4		145	8.00	90	0.040	0.200	0.620	0.017
	09 35	0050	10.2	10.0		145	8.00	91	0.040	0.200	0.650	0.016
	09 35	0090	9.0	10.2		145	7.90	92	0.040	0.200	0.620	0.011
	09 35	0130	6.9	9.0		143	7.60	95	0.030	0.300	0.850	0.024
	09 35	0175	6.8	8.4		144	7.60	95	0.050	0.200	0.840	0.026
74/06/19	10 45	0000	26.0		70	187	9.00	86	0.040	0.500	0.140	0.006
	10 45	0005	26.0	12.4		184	9.00	88	0.040	0.400	0.110	0.006
	10 45	0010	24.9	12.6		181	9.00	89	0.040	0.400	0.110	0.006
	10 45	0030	20.3	3.2		213	7.90	112	0.040	0.200	0.650	0.003
	10 45	0050	17.8	4.2		183	7.20	77	0.030	0.200	0.370	0.003
	10 45	0075	13.7	6.0		117	7.70	77	0.040	0.200K	0.360	0.004
	10 45	0100	12.4	6.4		123	7.70	83	0.030	0.200K	0.370	0.004
	10 45	0140	10.9	5.6		152	7.70	105	0.030	0.200K	0.790	0.017
	10 45	0175	9.7	1.8		149	7.50	103	0.080	0.200K	0.740	0.017
74/09/04	09 35	0000	23.6	6.6	126	193	8.00	103	0.080	0.600	0.090	0.006
	09 35	0010	23.6	6.6		193	8.00	101	0.050	0.300	0.060	0.003
	09 35	0023	23.6	0.6		194	8.00	102	0.050	0.200	0.070	0.005
	09 35	0045	18.7	0.4		198	7.60	116	0.080	0.200	0.230	0.004
	09 35	0080	15.5	2.4		118	7.70	76	0.040	0.200	0.400	0.005
	09 35	0120	13.5	1.6		126	7.60	85	0.080	0.200	0.500	0.017
	09 35	0160	12.2	0.6		154	7.50	106	0.440	0.700	0.240	0.038
74/10/11	11 10	0000	19.6	7.4	143	179	7.81	95	0.020	0.300	0.030	0.004
	11 10	0005	19.5	6.0		177	7.67	101	0.020K	0.200	0.020K	0.007
	11 10	0030	19.4	6.0		181	7.45	102	0.020K	0.200K	0.020	0.008
	11 10	0050	19.1	4.2		171	7.23	102	0.020K	0.200K	0.030	0.010
	11 10	0080	16.3	0.0		125	6.75	81	0.030	0.200K	0.350	0.014
	11 10	0110	15.0	0.6		109	6.75	72	0.040	0.200K	0.350	0.020
	11 10	0130	14.0	0.0		135	6.95	79	0.220	0.300	0.190	0.034
	11 10	0150	13.1	0.0		149	7.01	88	0.640	0.800	0.030	0.052
	11 10	0171	12.2	0.2		165	7.11	99	1.020	1.200	0.020	0.011

— K VALUE KNOWN TO BE LESS THAN INDICATED —

STORET RETRIEVAL DATE 76/01/13
NATL EUTROPHICATION SURVEY
EPA-LAS VEGAS

051503
36 37 29.0 093 25 07.0
TABLE ROCK LAKE
05 ARKANSAS

11EPALES 2111202
3 0160 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00665 PHOS-TOT MG/L P	32217 CHLRPHYL A UG/L	00031 INCDT LT REMNING PERCENT
74/04/06	09 35	0000	0.029	7.0	
	09 35	0005	0.034		
	09 35	0015	0.029		
	09 35	0050	0.031		
	09 35	0090	0.030		
	09 35	0130	0.031		
	09 35	0175	0.034		
74/06/19	10 45	0000	0.036	7.0	
	10 45	0001			50.0
	10 45	0005	0.028		
	10 45	0010	0.030		
	10 45	0017			1.0
	10 45	0030	0.015		
	10 45	0050	0.076		
	10 45	0075	0.011		
	10 45	0100	0.010		
	10 45	0140	0.026		
	10 45	0175	0.021		
74/09/04	09 35	0000	0.021	9.5	
	09 35	0010	0.014		
	09 35	0023	0.014		1.0
	09 35	0045	0.014		
	09 35	0080	0.012		
	09 35	0120	0.023		
	09 35	0160	0.102		
74/10/11	11 10	0000	0.011	2.4	
	11 10	0001			50.0
	11 10	0005	0.014		
	11 10	0021			1.0
	11 10	0030	0.015		
	11 10	0050	0.018		
	11 10	0080	0.018		
	11 10	0110	0.027		
	11 10	0130	0.056		
	11 10	0150	0.124		
	11 10	0171	0.272		

STORET RETRIEVAL DATE 76/01/13
NATL EUTROPHICATION SURVEY
EPA-LAS VEGAS

051504
36 34 28.0 093 30 26.0
TABLE ROCK LAKE
05 ARKANSAS

11EPALES 2111202
3 0127 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00010 WATER TEMP CENT	00300 DO MG/L	00077 TRANSP SECCHI INCHES	00094 CNDUCTVY FIELD MICROMHO	00400 PH SU	00410 T ALK CACO3 MG/L	00610 NH3-N TOTAL MG/L	00625 TOT KJEL N MG/L	00630 NO2&NO3 N-TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P
74/04/06	10 30	0000	11.1		90	129	7.90	75	0.040	0.200	0.290	0.004
	10 30	0005	11.1	10.0		129	7.90	74	0.040	0.200	0.280	0.007
	10 30	0020	11.0	10.2		130	7.80	74	0.040	0.200	0.290	0.009
	10 30	0045	10.2	10.0		129	7.70	74	0.040	0.200	0.360	0.009
	10 30	0070	9.0	10.0		127	7.50	72	0.040	0.200K	0.440	0.008
	10 30	0095	6.7	10.0		128	7.30	77	0.050	0.200	0.700	0.017
	10 30	0120	6.5	10.0		135	7.70	80	0.030	0.300	0.570	0.012
74/06/19	13 25	0000	26.0		70	209	8.80			0.700		
	13 25	0005	26.0	9.6		192	8.80	102	0.040	0.300	0.060	0.005
	13 25	0010	23.5	10.0		187	7.70	95	0.040	0.200	0.270	0.007
	13 25	0035	18.5	4.2		157	7.60	91	0.030	0.200K	0.300	0.006
	13 25	0060	15.9	5.8		137	7.60	92	0.050	0.200K	0.310	0.015
	13 25	0090	13.0	4.4		135	7.60	95	0.040	0.200K	0.380	0.005
	13 25	0123	11.2	4.4		145	7.50	98	0.020	0.200K	0.420	0.003
74/09/04	13 30	0000	23.8	7.0	138	196	8.00	101	0.070	0.600	0.080	0.004
	13 30	0005	23.8	6.8		194	8.10	100	0.050	0.400	0.050	0.005
	13 30	0020	23.7	6.4		195	8.10	99	0.060	0.400	0.060	0.002
	13 30	0030	23.6	6.2		196	8.00	101	0.050	0.400	0.040	0.003
	13 30	0045	17.8	6.4		141	7.80	87	0.060	0.400	0.200	0.002
	13 30	0080	15.2	1.2		111	7.70	70	0.050	0.400	0.430	0.006
	13 30	0130	13.0	0.6		128	7.50	89	0.310	0.600	0.170	0.010
74/10/11	10 20	0000	19.6	7.2	147	171	7.75	94	0.050	0.600	0.030	0.009
	10 20	0005	19.5	6.8		171	7.71	93	0.030	0.300	0.020	0.006
	10 20	0030	19.4	6.0		167	7.51	93	0.020	0.200K	0.020K	0.005
	10 20	0050	19.1	4.0		165	7.11	94	0.030	0.700	0.020K	0.005
	10 20	0065	16.8	0.6		113	6.69	92	0.020	0.200	0.020	0.005
	10 20	0080	16.1	0.0		111	6.73	58	0.040	0.200K	0.270	0.005
	10 20	0105	14.9	0.0		113	6.81	46	0.060	0.200K	0.290	0.005

— K VALUE KNOWN TO BE LESS THAN INDICATED —

STORET RETRIEVAL DATE 76/01/13
NATL EUTROPHICATION SURVEY
EPA-LAS VEGAS

051504
36 34 28.0 093 30 26.0
TABLE ROCK LAKE
05 ARKANSAS

11EPALES 2111202
3 0127 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00665 PHOS-TOT MG/L P	32217 CHLRPHYL A UG/L	00031 INCDT LT REMNING PERCENT
74/04/06	10 30	0000	0.014	2.5	
	10 30	0005	0.017		
	10 30	0020	0.018		
	10 30	0045	0.015		
	10 30	0070	0.016		
	10 30	0095	0.021		
	10 30	0120	0.034		
74/06/19	13 25	0000	0.023	3.2	
	13 25	0005	0.015		
	13 25	0010	0.014		
	13 25	0035	0.020		
	13 25	0060	0.017		
	13 25	0090	0.008		
	13 25	0123	0.010		
74/09/04	13 30	0000	0.016	6.6	
	13 30	0005	0.014		
	13 30	0020	0.014		1.0
	13 30	0030	0.012		
	13 30	0045	0.012		
	13 30	0080	0.013		
	13 30	0130	0.035		
74/10/11	10 20	0000	0.024	5.2	
	10 20	0001			50.0
	10 20	0005	0.017		
	10 20	0021			1.0
	10 20	0030	0.014		
	10 20	0050	0.014		
	10 20	0065	0.012		
	10 20	0080	0.014		
	10 20	0105	0.019		

STORET RETRIEVAL DATE 76/01/13
NATL EUTROPHICATION SURVEY
EPA-LAS VEGAS

051505
36 36 58.0 093 36 44.0
TABLE ROCK LAKE
05 ARKANSAS

11EPALES 2111202
3 0107 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00010 WATER TEMP CENT	00300 DO MG/L	00077 TRANSP SECCHI INCHES	00094 CNDUCTVY FIELD MICROMHO	00400 PH SU	00410 T ALK CACO3 MG/L	00610 NH3-N TOTAL MG/L	00625 TOT KJEL N MG/L	00630 NO2&NO3 N-TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P
74/04/06	11	10 0000	11.0		85	128	7.80	74	0.050	0.200	0.270	0.002
	11	10 0005	10.8	10.0		128	7.80	76	0.050	0.200K	0.260	0.004
	11	10 0020	10.7	10.0		129	7.70	78	0.060	0.200K	0.280	0.008
	11	10 0035	10.5	9.6		129	7.60	77	0.060	0.200K	0.290	0.005
	11	10 0050	10.0	9.4		128	7.50	76	0.060	0.200K	0.310	0.004
	11	10 0075	8.0	8.6		117	7.20	73	0.060	0.200K	0.430	0.005
	11	10 0100	7.5	8.6		115	7.20	76	0.050	0.200K	0.300	0.005
74/06/18	14	45 0000	25.9		120	202	8.70	70	0.020	0.400	0.060	0.002K
	14	45 0005	25.5	9.6		195	8.70	70	0.030	0.300	0.030	0.005
	14	45 0010	24.1	10.2		190	8.70	71	0.030	0.400	0.020	0.004
	14	45 0025	19.4	5.2		131	7.40	53	0.040	0.400	0.180	0.009
	14	45 0040	18.4	6.4		132	7.60	53	0.040	0.300	0.210	0.008
	14	45 0050	16.1	7.2		124	7.50	53	0.030	0.200	0.210	0.005
	14	45 0065	14.2	7.0		111	7.50	47	0.020	0.200	0.240	0.004
	14	45 0080	13.7	2.4		111	7.40	60	0.060	0.200K	0.270	0.008
	14	45 0106	12.0	2.4		134	7.30	61	0.060	0.200K	0.290	0.009
74/09/05	09	30 0000	23.8	7.0	121	191	8.10	97	0.040	0.200	0.070	0.006
	09	30 0010	23.8	7.2		191	8.10	95	0.020	0.200K	0.030	0.003
	09	30 0024	23.8	6.8		192	8.05	92	0.030	0.200K	0.020	0.003
	09	30 0040	19.7	1.0		159	7.60	87	0.030	0.200K	0.130	0.004
	09	30 0070	16.0	3.0		116	7.50	65	0.050	0.200K	0.340	0.006
	09	30 0100	14.6	0.4		135	7.45	86	0.390	0.600	0.070	0.008
74/10/10	16	00 0000	19.8	7.2	156	173	7.75	102	0.050	0.600	0.040	0.006
	16	00 0005	19.8	6.6		171	7.71	102	0.040	0.600	0.030	0.005
	16	00 0015	19.5	6.8		162	7.59	102	0.030	0.300	0.030	0.004
	16	00 0030	19.5	6.4		167	7.51	102	0.040	0.300	0.030	0.006
	16	00 0050	18.5	0.4		139	6.89	100	0.080	0.300	0.160	0.004
	16	00 0070	16.1	2.2		117	6.89	81	0.080	0.300	0.270	0.004
	16	00 0101	15.4	8.2		111	6.89	79	0.140	0.400	0.300	0.007

-86-

— K VALUE KNOWN TO BE LESS THAN INDICATED —

STORET RETRIEVAL DATE 76/01/13
NATL EUTHORMICATION SURVEY
EPA-LAS VEGAS

051505
36 36 58.0 093 36 44.0
TABLE ROCK LAKE
05 ARKANSAS

11EPALES 2111202
3 0107 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00665 PHOS-TOT MG/L P	32217 CHLRPHYL A UG/L	00031 INCDT LT REMNING PERCENT
74/04/06	11 10	0000	0.012	2.9	
	11 10	0005	0.015		
	11 10	0020	0.018		
	11 10	0035	0.020		
	11 10	0050	0.014		
	11 10	0075	0.015		
	11 10	0100	0.043		
74/06/18	14 45	0000	0.027	1.5	
	14 45	0005	0.019		
	14 45	0010	0.021		
	14 45	0025	0.034		
	14 45	0040	0.038		
	14 45	0050	0.017		
	14 45	0065	0.016		
	14 45	0080	0.015		
	14 45	0105	0.014		
74/09/05	09 30	0000	0.015	5.0	
	09 30	0010	0.014		
	09 30	0024	0.014		1.0
	09 30	0040	0.013		
	09 30	0070	0.020		
	09 30	0100	0.035		
74/10/10	16 00	0000	0.017	5.8	
	16 00	0005	0.018		
	16 00	0013			50.0
	16 00	0015	0.014		
	16 00	0030	0.028		
	16 00	0050	0.014		
	16 00	0070	0.048		
	16 00	0101	0.047		

STORET RETRIEVAL DATE 76/01/13
NATL EUTROPHICATION SURVEY
EPA-LAS VEGAS

051506
36 31 33.0 093 43 26.0
TABLE ROCK LAKE
05 ARKANSAS

11EPALES 2111202
3 0063 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00010 WATER TEMP CENT	00300 DO MG/L	00077 TRANSP SECCHI INCHES	00094 CNDUCTVY FIELD MICROMHO	00400 PH SU	00410 T ALK CACO3 MG/L	00610 NH3-N TOTAL MG/L	00625 TOT KJEL N MG/L	00630 NO2&NO3 N-TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P
74/04/06	13 50	0000	10.9		70	101	7.60	56	0.060	0.200K	0.230	0.002
	13 50	0005	10.8	10.6		100	7.50	55	0.050	0.200K	0.230	0.004
	13 50	0015	10.5	10.2		99	7.70	56	0.060	0.200K	0.240	0.003
	13 50	0030	10.1	10.2		94	7.60	60	0.050	0.200K	0.250	0.003
	13 50	0058	9.7	10.4		93	7.60	51	0.060	0.200K	0.250	0.004
74/05/18	14 00	0000	25.6		84	203	8.60	87	0.040	0.500	0.130	0.007
	14 00	0005	23.8	9.6		182	8.50	65	0.030	0.300	0.090	0.004
	14 00	0020	18.4	6.7		118	7.70	50	0.040	0.300	0.140	0.007
	14 00	0035	13.3	7.6		97	7.40	40	0.020	0.200	0.250	0.003
	14 00	0045	12.9	7.4		97	7.30	40	0.030	0.200	0.270	0.002
	14 00	0059	12.7	7.8		100	7.30	41	0.020	0.200	0.280	0.003
74/09/05	10 40	0000	23.5	7.6	72	188	8.30	101	0.040	0.500	0.020	0.008
	10 40	0005	23.6	7.2		189	8.35	101	0.040	0.200	0.030	0.004
	10 40	0015	23.5	7.4		189	8.40	101	0.030	0.300	0.020	0.003
	10 40	0026	23.5	7.2		188	8.35	101	0.030	0.300	0.020	0.002
	10 40	0040	20.4	5.0		163	7.90	92	0.040	0.200	0.150	0.003
	10 40	0057	15.3	3.4		113	7.65	72	0.060	0.300	0.340	0.003
74/10/10	14 30	0000	19.8	8.2	126	179	8.07	105	0.050	0.600	0.600	0.007
	14 30	0005	19.6	7.8		175	8.05	105	0.030	0.300	0.040	0.004
	14 30	0015	19.3	7.2		175	7.93	100	0.040	0.200	0.040	0.004
	14 30	0030	19.3	7.2		171	7.87	101	0.040	0.200	0.040	0.003
	14 30	0045	17.0	5.6		137	7.33	85	0.070	0.200	0.170	0.003
	14 30	0057	16.9	4.8		127	7.19	80	0.090	0.300	0.220	0.004

— K VALUE KNOWN TO BE LESS THAN INDICATED —

STONET RETRIEVAL DATE 76/01/13
NATL EUTHOPHICATION SURVEY
EPA-LAS VEGAS

051506
36 31 33.0 093 43 26.0
TABLE ROCK LAKE
05 ARKANSAS

11EPALES 2111202
3 0063 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00665 PHOS-TOT MG/L P	32217 CHLRPHYL A UG/L	00631 INCDT LT REMNING PERCENT
74/04/06	13 50	0000	0.015	4.6	
	13 50	0005	0.015		
	13 50	0015	0.015		
	13 50	0030	0.016		
	13 50	0058	0.018		
74/06/18	14 00	0000	0.023	2.4	
	14 00	0005	0.025		
	14 00	0020	0.021		
	14 00	0035	0.016		
	14 00	0045	0.015		
	14 00	0054	0.015		
74/04/05	10 40	0000	0.021	15.2	
	10 40	0005	0.020		
	10 40	0016	0.018		1.0
	10 40	0026	0.018		
	10 40	0040	0.027		
	10 40	0057	0.032		
74/10/10	14 30	0000	0.028	3.2	
	14 30	0005	0.026		
	14 30	0013			1.0
	14 30	0015	0.021		
	14 30	0030	0.022		
	14 30	0045	0.028		
	14 30	0057	0.039		

STORET RETRIEVAL DATE 76/01/13
NATL EUTROPHICATION SURVEY
EPA-LAS VEGAS

051507
36 33 30.0 093 36 00.0
TABLE ROCK LAKE
05 ARKANSAS

11EPALES 2111202
3 0072 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00010 WATER TEMP CENT	00300 DO MG/L	00077 TRANSP SECCHI INCHES	00094 CNDUCTVY FIELD MICROMHO	00400 PH SU	00410 T ALK CACO3 MG/L	00610 NH3-N TOTAL MG/L	00625 TOT KJEL N MG/L	00630 NO2&NO3 N-TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P
74/04/06	14 25	0000	12.7		60	160	8.60	94	0.060	0.300	0.310	0.004
	14 25	0005	12.7	10.8		159	8.60	95	0.050	0.400	0.310	0.005
	14 25	0015	12.6	11.8		159	8.50	95	0.050	0.400	0.300	0.004
	14 25	0040	12.0	10.8		158	8.30	96	0.050	0.200	0.300	0.003
	14 25	0068	8.8	5.6		144	7.50	92	0.060	0.200K	0.450	0.004
74/06/18	13 15	0000	26.6		80	212	8.90	101	0.030	0.500	0.060	0.008
	13 15	0005	26.0	12.4		207	8.90	104	0.020	0.400	0.030	0.006
	13 15	0015	22.6	10.8		178	8.40	100	0.030	0.400	0.030	0.006
	13 15	0025	19.1	6.0		127	7.40	75	0.050	0.200	0.380	0.013
	13 15	0040	17.1	5.2		143	7.40	87	0.050	0.200	0.290	0.021
	13 15	0050	15.6	6.6		137	7.50	86	0.040	0.200	0.240	0.013
	13 15	0055	15.0	6.4		135	7.40	84	0.030	0.200	0.300	0.010
	13 15	0076	14.4	2.6		154	7.30	90	0.040	0.200	0.380	0.015
74/09/05	10 00	0000	23.8	5.0	84	213	7.80	110	0.040	0.200	0.020	0.002
	10 00	0005	23.8	4.8		213	7.80	111	0.040	0.200	0.020K	0.002
	10 00	0015	23.8	4.8		213	7.80	110	0.030	0.200	0.020K	0.004
	10 00	0025	23.7	5.2		214	7.70	111	0.030	0.200	0.020K	0.004
	10 00	0035	23.7	1.0		250	7.40	124	0.020	0.200	0.020K	0.002
	10 00	0056	18.0	0.2		186	7.25	111	0.160	0.300	0.020	0.009
	10 00	0065	16.2	0.2		186	7.25	112	0.700	0.800	0.020K	0.023
74/10/10	15 10	0000	20.2	8.0	87	193	7.85	109	0.030	0.300	0.050	0.003
	15 10	0005	19.8	7.8		189	7.85	111	0.030	0.200	0.050	0.003
	15 10	0015	19.7	7.4		189	7.73	111	0.020	0.200	0.040	0.003
	15 10	0036	19.7	6.4		189	7.51	112	0.040	0.200K	0.060	0.003
	15 10	0050	19.1	2.2		209	7.11	128	0.190	0.400	0.120	0.005
	15 10	0065	16.5	0.0		153	6.93	103	0.480	0.700	0.020K	0.007
	15 10	0080	15.7	0.2		157	6.95	104	0.700	0.900	0.020K	0.011

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STORET RETRIEVAL DATE 76/01/13
NATL EUTHOPHICATION SURVEY
EPA-LAS VEGAS

051507
36 33 50.0 093 36 00.0
TABLE ROCK LAKE
05 ARKANSAS

11EPALES 2111202
3 0072 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00665 PHOS-TOT MG/L P	32217 CHLRPHYL A UG/L	00031 INCDT LT REMNING PERCENT
74/04/06	14 25	0000	0.027	28.9	
	14 25	0005	0.034		
	14 25	0015	0.033		
	14 25	0040	0.020		
	14 25	0068	0.024		
74/06/18	13 15	0000	0.041	7.6	
	13 15	0005	0.049		
	13 15	0015	0.034		
	13 15	0025	0.033		
	13 15	0040	0.050		
	13 15	0050	0.034		
	13 15	0055	0.031		
	13 15	0076	0.026		
74/09/05	10 00	0000	0.017	3.6	
	10 00	0005	0.019		
	10 00	0011			1.0
	10 00	0015	0.021		
	10 00	0025	0.017		
	10 00	0035	0.028		
	10 00	0050	0.036		
	10 00	0065	0.074		
74/10/10	15 10	0000	0.019	7.7	
	15 10	0005	0.020		
	15 10	0014			1.0
	15 10	0015	0.021		
	15 10	0030	0.017		
	15 10	0050	0.026		
	15 10	0065	0.038		
	15 10	0080	0.071		

STORET RETRIEVAL DATE 76/01/13
NATL EUTROPHICATION SURVEY
EPA-LAS VEGAS

051506
36 38 33.0 093 29 14.0
TABLE ROCK LAKE
05 ARKANSAS

11EPALES 2111202
3 0142 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00010 WATER TEMP CENT	00300 DO MG/L	00077 TRANSP SECCHI INCHES	00094 CNDUCTVY FIELD MICROMHO	00400 PH SU	00410 T ALK CACO3 MG/L	00610 NH3-N TOTAL MG/L	00625 TOT KJEL N MG/L	00630 NO2&NO3 N-TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P
74/04/06	15 05	0000	12.3		60	180	8.60	102	0.050	0.400	1.160	0.026
	15 05	0005	12.1	12.0		178	8.50	99	0.060	0.300	1.180	0.027
	15 05	0015	11.7	10.8		178	8.40	99	0.060	0.300	1.210	0.025
	15 05	0035	11.4	10.4		171	8.30	96	0.050	0.300	1.130	0.025
	15 05	0055	9.1	9.8		155		94	0.070	0.200	0.940	0.030
	15 05	0090	7.7	9.0		172	7.70	108	0.100	0.300	1.210	0.039
	15 05	0135	7.5	8.0		182	7.70	115	0.170	0.300	1.330	0.041
74/06/19	14 00	0000	26.1		75	192	9.00	100	0.040	0.600	0.100	0.013
	14 00	0005	25.6	12.4		190	9.00	102	0.040	0.400	0.090	0.008
	14 00	0010	24.0	12.4		190	8.90	102	0.030	0.500	0.080	0.007
	14 00	0020	22.4	6.2		211	7.80	118	0.060	0.400	0.320	0.007
	14 00	0030	19.8	4.4		212	7.60	98	0.070	0.300	0.940	0.066
	14 00	0045	18.2	4.2		185	7.70	114	0.040	0.200K	0.950	0.051
	14 00	0065	15.9	3.0		202	7.70	115	0.030	0.200K	0.980	0.051
	14 00	0080	13.4	4.8		161	7.70	97	0.040	0.200K	0.810	0.020
	14 00	0141	11.5	0.4		223	7.60	135	0.190	0.300	1.140	0.044
74/09/04	14 10	0000	24.0	5.0	108	206	8.10	140	0.040	0.300	0.040	0.004
	14 10	0010	23.8	6.4		207	8.10	106	0.050	0.200K	0.050	0.003
	14 10	0023	23.7	6.4		206	8.10	103	0.050	0.200K	0.050	0.004
	14 10	0040	19.0	0.3		198	7.70	115	0.050	0.200K	0.160	0.002
	14 10	0075	16.1	0.8		155	7.60	99	0.070	0.200K	0.520	0.009
	14 10	0100	14.6	0.8		157	7.60	101	0.090	0.200	0.490	0.033
	14 10	0130	13.5	0.6		202	7.50	133	0.750	0.800	0.130	0.067
74/10/11	09 25	0000	19.5	7.4	144	201	7.85	112	0.070	0.700	0.090	0.007
	09 25	0005	19.6	7.0		199	7.81	122	0.050	0.300	0.090	0.008
	09 25	0030	19.4	6.0		201	7.61	111	0.050	0.200	0.090	0.011
	09 25	0055	18.2	0.2		185	7.01	114	0.050	0.200	0.370	0.010
	09 25	0075	16.6	0.0		159	6.95	95	0.020	0.200K	0.470	0.021
	09 25	0095	16.2	0.4		107	6.97	95	0.070	0.200	0.440	0.048
	09 25	0110	15.4	0.4		163	7.09	102	0.140	0.300	0.360	0.040
	09 25	0130	14.3	0.0		99	7.05	135	1.000	1.800	0.090	0.036

— K VALUE KNOWN TO BE LESS THAN INDICATED —

-48-

STORET RETRIEVAL DATE 74/01/14
NATL EUTHOPHICATION SURVEY
EPA-LAS VEGAS

051509
36 43 50.0 093 30 00.0
TABLE ROCK LAKE
05 ARKANSAS

11EMALES 2111202
3 0044 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00010 WATER TEMP CENT	00300 DO MG/L	00077 TRANSP SECCHI INCHES	00094 CNDUCTVY FIELD MICROMHO	00400 PH SU	00410 T ALK CACO3 MG/L	00610 NH3-N TOTAL MG/L	00625 TOT KJEL N MG/L	00630 NO2&NO3 N-TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P
74/04/06	15 45	0000	14.0		35	240	8.10	130	0.060	0.300	1.740	0.087
	15 45	0005	14.0	9.0		240	8.10	129	0.040	0.200	1.870	0.081
	15 45	0015	14.0	9.0		239	8.10	129	0.060	0.200	1.930	0.080
	15 45	0030	13.9	9.2		241	8.10	130	0.060	0.200	1.900	0.081
	15 45	0039	13.6	8.8		240	8.00	132	0.080	0.200	1.870	0.073
74/06/19	14 40	0000	25.9		45	201	9.10	93	0.050	0.900	0.350	0.012
	14 40	0005	25.3	13.4		247	8.50	102	0.030	0.600	0.600	0.019
	14 40	0010	21.5	11.2		271	8.50	128	0.050	0.500	1.320	0.016
	14 40	0020	20.0	6.2		284	7.90	143	0.050	0.200	1.890	0.072
	14 40	0035	14.3	4.3		260	7.70	135	0.090	0.300	1.570	0.047
	14 40	0050	18.1	4.6		244	7.70	135	0.190	0.400	1.430	0.052
74/09/04	14 50	0000	24.6	7.4	42	259	8.20	119	0.180	0.700	0.340	0.061
	14 50	0005	23.3	4.6		254	7.90	121	0.210	0.500	0.340	0.064
	14 50	0015	23.1	5.0		251	7.80	121	0.250	0.600	0.350	0.065
	14 50	0027	22.8	4.8		269	7.80	126	0.230	0.600	0.460	0.104
	14 50	0041	20.4	5.6		320	7.80	155	0.220	0.500	1.340	0.327
74/10/10	10 45	0000	20.0	11.6	39	227	8.57	123	0.040	1.200	0.150	0.010
	10 45	0005	19.5	9.2		225	8.29	125	0.040	0.600	0.160	0.011
	10 45	0015	18.6	7.2		229	8.07	127	0.090	0.500	0.210	0.021
	10 45	0030	14.2	7.0		237	8.05	133	0.130	0.500	0.280	0.038
	10 45	0042	17.4	6.2		303	7.91	167	0.220	0.700	1.200	0.152

DATE FROM TO	TIME OF DAY	DEPTH FEET	00665 PHOS-TOT MG/L P	32217 CHLRPHYL A UG/L	00031 INCDT LT REMNING PERCENT
74/04/06	15 45	0000	0.111	6.3	
	15 45	0005	0.101		
	15 45	0015	0.103		
	15 45	0030	0.104		
	15 45	0039	0.120		
74/06/19	14 40	0000	0.056	16.4	
	14 40	0005	0.086		
	14 40	0010	0.088		
	14 40	0020	0.093		
	14 40	0035	0.073		
	14 40	0050	0.073		
74/09/04	14 50	0000	0.123	13.4	
	14 50	0005	0.106		
	14 50	0007			1.0
	14 50	0015	0.104		
	14 50	0027	0.151		
	14 50	0041	0.417		
74/10/10	10 45	0000	0.102	26.8	
	10 45	0005	0.053		
	10 45	0007			1.0
	10 45	0015	0.053		
	10 45	0030	0.067		
	10 45	0042	0.240		

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STORET RETRIEVAL DATE 76/01/13
NATL EUTROPHICATION SURVEY
EPA-LAS VEGAS

051508
36 38 33.0 093 29 14.0
TABLE ROCK LAKE
05 ARKANSAS

11EPALES 2111202
3 0142 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00665 PHOS-TOT MG/L P	32217 CHLRPHYL A UG/L	00031 INCDT LT REMNING PERCENT
74/04/06	15 05	0000	0.055	8.1	
	15 05	0005	0.064		
	15 05	0015	0.058		
	15 05	0035	0.048		
	15 05	0055	0.043		
	15 05	0090	0.044		
	15 05	0135	0.052		
74/06/19	14 00	0000	0.024	9.3	
	14 00	0001			50.0
	14 00	0005	0.025		
	14 00	0010	0.025		
	14 00	0015			1.0
	14 00	0020	0.030		
	14 00	0030	0.035		
	14 00	0045	0.066		
	14 00	0065	0.060		
	14 00	0080	0.025		
	14 00	0141	0.058		
74/09/04	14 10	0000	0.017	9.0	
	14 10	0010	0.017		
	14 10	0023	0.017		1.0
	14 10	0040	0.014		
	14 10	0075	0.018		
	14 10	0100	0.071		
	14 10	0130	0.184		
74/10/11	09 25	0000	0.019	2.7	
	09 25	0001			50.0
	09 25	0005	0.024		
	09 25	0019			1.0
	09 25	0030	0.022		
	09 25	0055	0.030		
	09 25	0075	0.026		
	09 25	0095	0.056		
	09 25	0110	0.058		
	09 25	0130	0.360		

STORET RETRIEVAL DATE 77/02/02

050401
36 22 03.0 092 34 20.0 3
BULL SHOALS LAKE
05005 ARKANSAS

100591

/TYPA/AMBNT/LAKE

11EPALES 04001002
0210 FEET DEPTH CLASS 00

DATE FROM TO	TIME OF DAY	DEPTH FEET	00010 WATER TEMP CENT	00300 DO MG/L	00077 TRANSP SECCHI INCHES	00094 CNDUCTVY FIELD MICROMHO	00400 PH SU	00410 T ALK CACO3 MG/L	00610 NH3-N TOTAL MG/L	00625 TOT KJEL N MG/L	00630 NO2&NO3 N-TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P
74/04/06	14	00 0000	11.2		152	39	8.20	118	0.050	0.600	0.290	0.009
	14	00 0005	11.1	10.4		55	8.20	116	0.040	0.200K	0.280	0.006
	14	00 0015	10.7	10.0		130	8.20	114	0.040	0.200K	0.270	0.006
	14	00 0040	10.6	10.2		146	8.10	114	0.050	0.200K	0.280	0.006
	14	00 0080	10.6	10.2		180	8.10	125	0.050	0.200K	0.290	0.006
	14	00 0135	7.5	9.4		196	7.70	128	0.030	0.200K	0.340	0.004
	14	00 0160	7.2	9.4		203	7.70	125	0.040	0.200K	0.370	0.007
	14	00 0190	7.2	9.2		265	7.60	123	0.040	0.200K	0.370	0.008
74/06/20	15	05 0000	24.6	8.8	300	246	8.60	123	0.070	0.400	0.220	0.002K
	15	05 0005	24.4	8.8		249	8.40	123	0.040	0.300	0.180	0.002K
	15	05 0025	21.3	8.4		230	8.40	123	0.050	0.300	0.200	0.002K
	15	05 0045	15.9	6.0		203	8.40	120	0.060	0.200	0.340	0.002K
	15	05 0070	13.8	6.8		192	8.20	122	0.040	0.200	0.380	0.002K
	15	05 0100	12.3	7.2		184	7.50	123	0.030	0.200	0.380	0.002K
	15	05 0130	11.1	7.4		181	8.60	122	0.040	0.200K	0.410	0.002K
	15	05 0160	9.3	6.2		179	7.80	125	0.040	0.200K	0.460	0.002K
74/09/04	13	30 0000	24.8	8.4	144	251	8.50	130	0.050	0.700	0.040	0.010
	13	30 0015	24.5	8.4		241	8.50	129	0.060	0.500	0.030	0.006
	13	30 0036	23.9	8.0		239	8.40	131	0.030	0.500	0.040	0.005
	13	30 0042	19.2	1.4		233	7.90	140	0.060	0.500	0.310	0.005
	13	30 0060	17.2	1.2		212	7.80	132	0.050	0.500	0.480	0.005
	13	30 0080	15.8	4.0		199	7.80	126	0.040	0.400	0.530	0.004
	13	30 0100	15.0	5.0		189	7.80	115	0.040	0.300	0.580	0.004
	13	30 0120	14.4	4.2		191	7.70	124	0.050	0.400	0.570	0.005
	13	30 0140	12.8	3.6		191	7.70	127	0.040	0.400	0.520	0.005
	13	30 0160	11.3	0.6		187	7.60	130	0.060	0.400	0.480	0.010
	13	30 0185	9.3	0.2		183	7.60	137	0.200	0.500	0.320	0.023
74/10/15	11	00 0000	19.3	6.8	156	219	8.01	133	0.050	0.400	0.080	0.004
	11	00 0005	19.3	7.4		219	8.01	136	0.020	0.300	0.070	0.002
	11	00 0020	19.3	7.0		219	8.01	136	0.020	0.300	0.070	0.002
	11	00 0050	19.3	7.2		219	7.93	137	0.020	0.200	0.070	0.002
	11	00 0070	19.3	6.8		215	7.83	138	0.020K	0.300	0.080	0.002
	11	00 0075	19.3	5.2		213	7.75	125	0.040	0.300	0.100	0.002
	11	00 0090	16.8	1.6		183	7.05	114	0.020	0.200	0.430	0.003
	11	00 0110	15.9	2.0		185	7.07	120	0.020	0.200	0.490	0.004
	11	00 0130	14.7	2.2		185	7.05	122	0.020	0.200	0.530	0.005

K VALUE KNOWN TO BE
LESS THAN INDICATED

STORET RETRIEVAL DATE 77/02/02

050401
36 22 03.0 092 34 20.0 3
BULL SHOALS LAKE
05005 ARKANSAS
100591

/TYPA/AMBNT/LAKE

11EPALES 04001002
0210 FEET DEPTH CLASS 00

DATE FROM TO	TIME OF DAY	DEPTH FEET	00010 WATER TEMP CENT	00300 DO MG/L	00077 TRANSP SECCHI INCHES	00094 CNDUCTVY FIELD MICROMHO	00400 PH SU	00410 T ALK CACO3 MG/L	00610 NH3-N TOTAL MG/L	00625 TOT KJEL N MG/L	00630 NO2&NO3 N-TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P
74/10/15	11 00	0150	13.0	0.6		189	7.09	133	0.210	0.400	0.290	0.012
	11 00	0176	10.9	0.6		191	7.19	146	0.410	0.600	0.080	0.022

-88-

STORET RETRIEVAL DATE 77/02/02

050401
36 22 03.0 092 34 20.0 3
BULL SHOALS LAKE
05005 ARKANSAS
100591

/TYPA/AMONT/LAKE

11EPALES 0=001002
0210 FEET DEPTH CLASS 00

DATE FROM TO	TIME OF DAY	DEPTH FEET	00665 PHOS-TOT MG/L P	32217 CHLRPHYL A UG/L	00031 INCDT LT REMNING PERCENT
74/04/06	14 00	0000	0.023	2.4	
	14 00	0005	0.018		
	14 00	0015	0.019		
	14 00	0040	0.017		
	14 00	0080	0.020		
	14 00	0135	0.016		
	14 00	0160	0.015		
	14 00	0190	0.017		
74/06/20	15 05	0000	0.008	1.1	
	15 05	0005	0.010		
	15 05	0025	0.008		
	15 05	0045	0.008		1.0
	15 05	0070	0.008		
	15 05	0100	0.008		
	15 05	0130	0.010		
	15 05	0160	0.011		
74/09/04	13 30	0000	0.017	3.4	
	13 30	0015	0.012		
	13 30	0028			5.0
	13 30	0036	0.016		
	13 30	0042	0.014		1.0
	13 30	0060	0.017		
	13 30	0080	0.010		
	13 30	0100	0.010		
	13 30	0120	0.010		
	13 30	0140	0.012		
	13 30	0160	0.019		
	13 30	0185	0.039		
74/10/15	11 00	0000	0.011	2.4	
	11 00	0001			50.0
	11 00	0005	0.010		
	11 00	0020	0.010		
	11 00	0024			1.0
	11 00	0050	0.009		
	11 00	0070	0.008		
	11 00	0075	0.009		

STORET RETRIEVAL DATE 77/02/02

050401
36 22 03.0 092 34 20.0 3
BULL SHOALS LAKE
05005 ARKANSAS
100591

/TYPA/AMBNT/LAKE

11EPALES 04001002
0210 FEET DEPTH CLASS 00

DATE FROM TO	TIME OF DAY	DEPTH FEET	00665 PHOS-TOT MG/L P	32217 CHLRPHYL A UG/L	00031 INCDT LT REMNING PERCENT
74/10/15	11	00	0090	0.004	
	11	00	0110	0.008	
	11	00	0130	0.010	
	11	00	0150	0.018	
	11	00	0176	0.049	

STORET RETRIEVAL DATE 77/02/02

050402
36 24 05.0 092 35 32.0 3
BULL SHOALS LAKE
05089 ARKANSAS

100591

/TYPA/AMBNT/LAKE

11EPALES 04001002
0192 FEET DEPTH CLASS 00

DATE FROM TO	TIME OF DAY	DEPTH FEET	00010 WATER TEMP CENT	00300 DO MG/L	00077 TRANSP SECCHI INCHES	00094 CNDUCTVY FIELD MICROMHO	00400 PH SU	00410 T ALK CACO3 MG/L	00610 NH3-N TOTAL MG/L	00625 TOT KJEL N MG/L	00630 NO2&NO3 N-TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P
74/04/06	14	35 0000	11.0		150		8.10	125	0.040	0.500	0.280	0.006
	14	35 0005	10.9	10.6		21	8.10	125	0.040	0.200	0.290	0.008
	14	35 0015	10.8	10.4		114	8.10	123	0.020	0.300	0.260	0.004
	14	35 0030	10.5	10.4		122	8.10	119	0.060	0.200	0.300	0.002
	14	35 0070	10.4	10.4		163	8.00	118	0.060	0.200K	0.300	0.002
	14	35 0120	8.6	9.4		205	7.70	115	0.030	0.200K	0.350	0.006
	14	35 0185	7.2	9.6		265	7.70	112	0.040	0.200	0.350	0.009
74/06/21	10	50 0000	26.4	8.4	260	250	8.70	130	0.040	0.300	0.230	0.004
	10	50 0005	26.3	8.4		254	8.50	129	0.020K	0.200	0.170	0.002K
	10	50 0015	23.7	9.2		237	8.70	129	0.030	0.200	0.170	0.002K
	10	50 0040	17.2	5.0		204	8.00	130	0.050	0.300	0.430	0.002
	10	50 0080	13.2	6.6		182	7.80	128	0.030	0.200	0.430	0.002K
	10	50 0120	11.4	7.6		174	8.40	129	0.050	0.300	0.450	0.004
	10	50 0160	9.2	5.4		170	7.50	131	0.060	0.200	0.500	0.006
74/09/04	14	35 0000	25.0	8.0	156	247	8.40	127	0.040	0.700	0.050	0.006
	14	35 0015	24.4	7.8		241	8.40	126	0.030	0.600	0.030	0.005
	14	35 0035	23.7	5.2		243	8.10	131	0.030	0.500	0.050	0.005
	14	35 0040	20.5	1.6		241	7.90	134	0.620	0.600	0.080	0.008
	14	35 0050	17.8	1.0		213	7.80	129	0.060	0.400	0.400	0.006
	14	35 0060	16.9	2.0		207	7.75	129	0.050	0.200K	0.480	0.006
	14	35 0070	16.4	5.0		203	7.75	126	0.050	0.200K	0.490	0.008
	14	35 0090	15.2	5.0		191	7.75	121	0.040	0.200K	0.570	0.007
	14	35 0110	14.6	5.0		189	7.70	115	0.050	0.200K	0.580	0.009
	14	35 0130	13.0	3.4		191	7.70	136	0.060	0.200K	0.520	0.006
	14	35 0150	11.8	0.3		189	7.65	138	0.090	0.200	0.480	0.009
	14	35 0165	11.1	0.3		191	7.60	142	0.180	0.400	0.370	0.013
	14	35 0186	9.8	0.0		236	7.60	151	0.430	0.900	0.240	0.020
74/10/15	12	00 0000	19.4	6.4	150	219	8.07	133	0.050	0.400	0.060	0.003
	12	00 0005	19.4	7.4		219	8.05	132	0.030	0.300	0.060	0.004
	12	00 0020	19.3	7.8		217	8.03	131	0.030	0.300	0.050	0.004
	12	00 0040	19.3	7.2		217	7.93	127	0.030	0.200K	0.050	0.004
	12	00 0070	18.2	1.0		205	7.19	122	0.020	0.200K	0.280	0.005
	12	00 0100	16.6	0.8		195	7.07	120	0.020K	0.200K	0.430	0.005
	12	00 0130	14.6	1.4		187	7.03	119	0.030	0.200K	0.500	0.009
	12	00 0155	12.8	0.6		195	7.15	135	0.350	0.400	0.140	0.018
	12	00 0176	10.4	0.8		193	7.31	145	0.570	0.700	0.020K	0.042

K VALUE KNOWN TO BE
LESS THAN INDICATED

STORET RETRIEVAL DATE 77/02/02

050402
36 24 05.0 092 35 32.0 3
BULL SHOALS LAKE
05039 ARKANSAS

100591

/TYPA/AMBNT/LAKE

11EPALES 04001002
0192 FEET DEPTH CLASS 00

DATE FROM TO	TIME OF DAY	DEPTH FEET	00665 PHOS-TOT MG/L P	32217 CHLRPHYL A UG/L	00031 INCDT LT REMNTNG PERCENT
74/04/06	14 35	0000	0.018	1.8	
	14 35	0005	0.025		
	14 35	0015	0.023		
	14 35	0030	0.019		
	14 35	0070	0.017		
	14 35	0120	0.016		
	14 35	0185	0.036		
74/06/21	10 50	0000	0.007	2.8	
	10 50	0005	0.007		
	10 50	0015	0.007		
	10 50	0040	0.008		
	10 50	0080	0.005		
	10 50	0120	0.012		
	10 50	0160	0.010		
74/09/04	14 35	0000	0.018	3.4	
	14 35	0015	0.016		
	14 35	0026			5.0
	14 35	0035	0.012		
	14 35	0038			1.0
	14 35	0040	0.019		
	14 35	0050	0.013		
	14 35	0060	0.011		
	14 35	0070	0.011		
	14 35	0090	0.010		
	14 35	0110	0.018		
	14 35	0130	0.013		
	14 35	0150	0.020		
	14 35	0165	0.030		
	14 35	0186	0.104		
74/10/15	12 00	0000	0.009	3.1	
	12 00	0005	0.011		
	12 00	0019			1.0
	12 00	0020	0.016		
	12 00	0040	0.022		
	12 00	0070	0.017		
	12 00	0100	0.013		
	12 00	0130	0.017		
	12 00	0155	0.035		
	12 00	0176	0.098		

STORET RETRIEVAL DATE 77/02/02

050403
36 27 50.0 092 38 40.0 3
BULL SHOALS LAKE
05089 ARKANSAS
100591

/TYPA/AMBNT/LAKE

11EPALES 04001002
0151 FEET DEPTH CLASS 00

DATE FROM TO	TIME OF DAY	DEPTH FEET	00010 WATER TEMP CENT	00300 DO MG/L	00077 TRANSP SECCHI INCHES	00094 CNDUCTVY FIELD MICROMHO	00400 PH SU	00410 T ALK CACO3 MG/L	00610 NH3-N TOTAL MG/L	00625 TOT KJEL N MG/L	00630 NO2&NO3 N-TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P
74/04/06	15 20	0000	11.6		138	14	8.20	116	0.060	0.300	0.310	0.004
	15 20	0005	11.5	10.4		36	8.20	116	0.040	0.200	0.290	0.005
	15 20	0015	11.5	10.2		91	8.20	114	0.060	0.200	0.310	0.004
	15 20	0030	11.2	10.4		140	8.20	118	0.040	0.200	0.310	0.010
	15 20	0070	10.0	10.0		164	8.00	123	0.040	0.200	0.310	0.002
	15 20	0110	7.2	9.2		193	7.70	119	0.040	0.200K	0.360	0.007
	15 20	0140	7.1	9.6		195	7.70	119	0.060	0.200	0.380	0.005
74/06/21	10 15	0000	26.2	8.2	260	249	8.80	130	0.060	1.000	0.220	0.004
	10 15	0005	26.3	8.2		252	8.60	131	0.030	0.300	0.160	0.002
	10 15	0015	25.6	8.6		242	8.40	131	0.020K	0.300	0.170	0.002K
	10 15	0040	15.5	5.4		191	7.90	130	0.020K	0.200	0.500	0.002K
	10 15	0080	12.8	6.8		178	7.60	126	0.020	0.200K	0.470	0.002K
	10 15	0120	11.3	7.4		176	8.00	129	0.020	0.200K	0.450	0.002
	10 15	0160	9.3	3.8		178	8.00	132	0.020K	0.200	0.510	0.004
74/09/05	10 15	0000	24.1	6.4	146	251	8.20	132	0.030	0.200	0.040	0.002K
	10 15	0015	24.1	0.6		251	8.25	131	0.040	0.200K	0.030	0.002K
	10 15	0031	23.8	3.6		245	8.10	128	0.030	0.200K	0.040	0.002K
	10 15	0045	18.5	7.4		219	7.70	128	0.030	0.200K	0.320	0.002K
	10 15	0060	16.9	2.6		191	7.70	113	0.020	0.200K	0.430	0.002K
	10 15	0075	16.2	2.4		203	7.65	123	0.030	0.400	0.500	0.002K
	10 15	0090	15.3	4.0		195	7.65	121	0.020	0.200K	0.560	0.002K
	10 15	0110	14.5	4.2		200	7.60	124	0.030	0.200K	0.570	0.002
74/10/15	12 45	0000	19.5	8.0	150	225	8.03	132	0.040	0.300	0.040	0.005
	12 45	0005	19.5	7.4		225	8.03	131	0.040	0.200K	0.040	0.005
	12 45	0015	19.5	7.6		225	8.00	130	0.020	0.200K	0.040	0.004
	12 45	0030	19.5	7.6		223	7.93	130	0.020	0.200K	0.040	0.004
	12 45	0055	19.3	6.6		219	7.85	127	0.030	0.200K	0.050	0.004
	12 45	0070	17.3	2.0		179	7.03	107	0.020K	0.200K	0.410	0.004
	12 45	0100	16.0	1.8		173	7.07	110	0.020	0.200K	0.490	0.005
	12 45	0130	14.4	0.4		179	7.05	114	0.060	0.200K	0.450	0.008
	12 45	0161	12.3	0.8		205	7.21	136	0.700	0.900	0.030	0.013

K VALUE KNOWN TO BE
LESS THAN INDICATED

STORET RETRIEVAL DATE 77/02/02

050403
36 27 50.0 092 38 40.0 3
BULL SHOALS LAKE
05089 ARKANSAS

100591

/TYPA/AMBNT/LAKE

11EPALES 04001002
0151 FEET DEPTH CLASS 00

DATE FROM TO	TIME OF DAY	DEPTH FEET	00665 PHOS-TOT MG/L P	32217 CHLRPHYL A UG/L	00031 INCDT LT REMNING PERCENT
74/04/06	15	20 0000	0.017	1.8	
	15	20 0005	0.016		
	15	20 0015	0.018		
	15	20 0030	0.020		
	15	20 0070	0.018		
	15	20 0110	0.018		
	15	20 0140	0.016		
74/06/21	10	15 0000	0.010	1.5	
	10	15 0005	0.009		
	10	15 0015	0.008		
	10	15 0040	0.006		
	10	15 0080	0.006		
	10	15 0120	0.007		
	10	15 0160	0.009		
74/09/05	10	15 0000	0.014	2.9	
	10	15 0015	0.012		
	10	15 0023			5.0
	10	15 0031	0.012		
	10	15 0035			1.0
	10	15 0045	0.012		
	10	15 0060	0.010		
	10	15 0075	0.009		
	10	15 0090	0.015		
	10	15 0110	0.032		
74/10/15	12	45 0000	0.014	3.2	
	12	45 0001			50.0
	12	45 0005	0.015		
	12	45 0015	0.015		
	12	45 0019			1.0
	12	45 0030	0.017		
	12	45 0055	0.014		
	12	45 0070	0.011		
	12	45 0100	0.012		
	12	45 0130	0.019		
	12	45 0161	0.140		

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STORET RETRIEVAL DATE 77/02/02

050405
36 27 35.0 092 44 18.0 3
BULL SHOALS LAKE
05089 ARKANSAS

100591

/TYPA/AMBNT/LAKE

11EPALES 04001002
0150 FEET DEPTH CLASS 00

DATE FROM TO	TIME OF DAY	DEPTH FEET	00010 WATER TEMP CENT	00300 DO MG/L	00077 TRANSP SECCHI INCHES	00094 CNDUCTVY FIELD MICROMHO	00400 PH SU	00410 T ALK CACO3 MG/L	00610 NH3-N TOTAL MG/L	00625 TOT KJEL N MG/L	00630 NO2&NO3 N-TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P
74/04/09	12 30	0000	11.6		150	18	8.20	122	0.060	0.600	0.360	0.006
	12 30	0005	11.6	10.6		23	8.20	127	0.040	0.300	0.360	0.004
	12 30	0015	11.0	10.4		98	8.20	125	0.040	0.300	0.380	0.004
	12 30	0030	10.5	9.8		115	7.80	122	0.030	0.300	0.390	0.003
	12 30	0080	7.7	9.0		155	7.70	120	0.030	0.300	0.390	0.003
	12 30	0140	7.4	9.0		215	7.70	120	0.020	0.300	0.350	0.003
74/06/21	11 25	0000	26.8	8.8	260	251	8.60	132	0.050	0.400	0.190	0.002
	11 25	0005	26.6	8.8		252	8.50	131	0.030	0.300	0.150	0.002
	11 25	0015	24.2	9.2		241	8.80	125	0.040	0.400	0.140	0.002
	11 25	0040	16.7	6.2		190	8.10	120	0.040	0.200	0.440	0.008
	11 25	0080	13.1	6.6		177	7.90	120	0.040	0.200	0.550	0.006
	11 25	0120	11.0	5.8		173	7.80	119	0.030	0.200	0.500	0.006
	11 25	0160	9.6	1.4		194	8.50			0.200		
74/09/05	10 55	0000	24.4	7.4	135	239	8.30	123	0.030	0.500	0.070	0.002K
	10 55	0015	24.2	7.8		237	8.30	124	0.030	0.200	0.030	0.002
	10 55	0032	24.0	6.6		235	8.20	124	0.030	0.200	0.040	0.003
	10 55	0038	19.7	0.8		223	7.80	118	0.040	0.200K	0.320	0.003
	10 55	0045	17.6	2.2		197	7.70	114	0.030	0.200K	0.380	0.002
	10 55	0055	16.9	3.4		177	7.70	106	0.020	0.200K	0.440	0.002
	10 55	0065	16.4	3.4		175	7.60	106	0.030	0.200K	0.490	0.003
	10 55	0080	15.8	3.6		181	7.60	117	0.050	0.200K	0.550	0.006
	10 55	0095	15.0	4.2		185	7.60	119	0.040	0.200K	0.590	0.004
	10 55	0110	14.3	5.2		185	7.60	122	0.030	0.200K	0.600	0.004
	10 55	0125	13.5	0.4		179	7.50	122	0.100	0.300	0.600	0.007
	10 55	0140	12.7	0.4		193	7.50	134	0.230	0.400	0.360	0.009
74/10/15	16 05	0000	19.6	8.0	134	215	8.07	123	0.040	0.500	0.060	0.002
	16 05	0005	19.6	7.8		213	8.06	122	0.040	0.200	0.060	0.004
	16 05	0020	19.6	8.0		213	8.03	121	0.030	0.200K	0.060	0.005
	16 05	0040	19.6	7.6		211	7.99	121	0.030	0.300	0.060	0.005
	16 05	0065	18.6	7.0		209	7.37	117	0.020	0.200	0.270	0.005
	16 05	0095	16.1	0.6		171	6.99	104	0.020K	0.200K	0.470	0.009
	16 05	0120	15.0	0.4		181	7.07	113	0.290	0.400	0.230	0.011
	16 05	0146	13.6	0.8		195	7.13	129	0.870	1.000	0.020	0.009

K VALUE KNOWN TO BE
LESS THAN INDICATED

STORET RETRIEVAL DATE 77/02/02

050405
36 27 35.0 092 44 18.0 3
BULL SHOALS LAKE
050-9 ARKANSAS
100591

/TYPA/AMBNT/LAKE

11EPALES 04001002
0150 FEET DEPTH CLASS 00

DATE FROM TO	TIME OF DAY	DEPTH FEET	00665 PHOS-TOT MG/L P	32217 CHLRPHYL A UG/L	00031 INCDT LT REMNING PERCENT
74/04/09	12 30	0000	0.016	5.0	
	12 30	0005	0.013		
	12 30	0015	0.011		
	12 30	0030	0.009		
	12 30	0080	0.009		
	12 30	0140	0.009		
74/06/21	11 25	0000	0.008	1.0	
	11 25	0005	0.009		
	11 25	0015	0.011		
	11 25	0040	0.015		
	11 25	0080	0.009		
	11 25	0120	0.010		
	11 25	0160	0.013		
74/09/05	10 55	0000	0.017	3.5	
	10 55	0006			50.0
	10 55	0015	0.014		
	10 55	0024			5.0
	10 55	0032	0.031		
	10 55	0035			1.0
	10 55	0038	0.014		
	10 55	0045	0.012		
	10 55	0055	0.010		
	10 55	0065	0.013		
	10 55	0080	0.012		
	10 55	0095	0.010		
	10 55	0110	0.012		
	10 55	0125	0.016		
	10 55	0140	0.048		
74/10/15	16 05	0000	0.016	3.4	
	16 05	0005	0.018		
	16 05	0017			1.0
	16 05	0020	0.020		
	16 05	0040	0.032		
	16 05	0065	0.017		
	16 05	0095	0.018		
	16 05	0120	0.058		
	16 05	0146	0.151		

STORET RETRIEVAL DATE 77/02/02

050406
36 28 39.0 092 49 14.0 3
BULL SHOALS LAKE
05089 ARKANSAS

100591

/TYPA/AMBNT/LAKE

11EPALES 04001002
0096 FEET DEPTH CLASS 00

DATE FROM TO	TIME OF DAY	DEPTH FEET	00010 WATER TEMP CENT	00300 DO MG/L	00077 TRANSP SECCHI INCHES	00094 CNDUCTVY FIELD MICROMHO	00400 PH SU	00410 T ALK CACO3 MG/L	00610 NH3-N TOTAL MG/L	00625 TOT KJEL N MG/L	00630 NO2&NO3 N-TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P
74/04/09	13	15 0000	10.M		114	25	8.50	124	0.050	0.400	0.430	0.005
	13	15 0005	10.1	11.8		32	8.50	123	0.040	0.300	0.430	0.004
	13	15 0025	10.1	10.8		106	7.90	120	0.030	0.200	0.400	0.003
	13	15 0090	8.3	9.2		168	7.80	113	0.050	0.200	0.400	0.004
74/06/21	15	30 0000	27.0	8.8	260	249	8.80	125	0.050	0.900	0.180	0.004
	15	30 0005	26.9	8.8		251	8.80	125	0.030	0.300	0.130	0.002
	15	30 0015	25.8	8.8		241	8.70	125	0.030	0.200	0.130	0.002
	15	30 0040	16.5	6.6		190	8.10	122	0.030	0.200	0.440	0.006
	15	30 0080	13.1	7.8		180	7.80	121	0.020	0.200K	0.560	0.006
	15	30 0120	11.1	3.6		175	7.80	122	0.030	0.200	0.510	0.005
	15	30 0150	10.1	0.2		180	7.60	126	0.080	0.200	0.480	0.006
74/09/05	14	05 0000	24.9	7.8	138	238	8.30	129	0.040	0.200	0.030	0.003
	14	05 0015	24.6	7.6		238	8.30	131	0.040	0.200	0.030	0.007
	14	05 0030	23.7	5.0		236	8.00	130	0.030	0.200	0.050	0.004
	14	05 0040	18.7	4.0		195	7.80	114	0.020	0.200K	0.380	0.002
	14	05 0055	16.7	4.2		176	7.70	98	0.020	0.200K	0.430	0.003
	14	05 0070	16.1	3.6		173	7.70	101	0.020	0.200K	0.490	0.006
	14	05 0085	15.1	3.6		182	7.65	108	0.020	0.000K	0.560	0.004
	14	05 0100	14.4	2.6		187	7.60	112	0.020	0.200K	0.570	0.004
74/10/10	14	55 0000	20.5	8.0	132	203	8.35	125	0.020	0.300	0.090	0.004
	14	55 0005	19.9	7.8		200	8.35	126	0.020K	0.300	0.080	0.004
	14	55 0030	19.8	7.6		199	8.25	125	0.020K	0.300	0.070	0.003
	14	55 0050	19.4	6.2		199	8.00	125	0.020K	0.300	0.120	0.003
	14	55 0065	17.5	1.2		179	7.50	117	0.020K	0.200K	0.440	0.006
	14	55 0085	16.3	0.4		166	7.40	109	0.070	0.200	0.400	0.009
	14	55 0100	15.7	0.4		168	7.40	113	0.190	0.400	0.320	0.010
	14	55 0120	14.7	0.4		180	7.40	125	0.560	0.800	0.100	0.009

K VALUE KNOWN TO BE
LESS THAN INDICATED

STORET RETRIEVAL DATE 77/02/02

050406
36 25 39.0 092 49 14.0 3
BULL SHOAL LAKE
05089 ARKANSAS
100591

/TYPA/AMBNT/LAKE

11EPALES 04001002
0096 FEET DEPTH CLASS 00

DATE FROM TO	TIME OF DAY	DEPTH FEET	00665 PHOS-TOT MG/L P	32217 CHLRPHYL A UG/L	00031 INCDT LT REMNING PERCENT
74/04/09	13 15	0000	0.014	10.6	
	13 15	0005	0.019		
	13 15	0025	0.013		
	13 15	0090	0.013		
74/06/21	15 30	0000	0.013	2.2	
	15 30	0005	0.009		
	15 30	0015	0.009		
	15 30	0040	0.015		
	15 30	0080	0.011		
	15 30	0120	0.013		
	15 30	0150	0.021		
74/09/05	14 05	0000	0.013	4.7	
	14 05	0005			50.0
	14 05	0015	0.017		
	14 05	0021			5.0
	14 05	0030	0.014		
	14 05	0034			1.0
	14 05	0040	0.014		
	14 05	0055	0.015		
	14 05	0070	0.014		
	14 05	0085	0.014		
	14 05	0100	0.017		
74/10/10	14 55	0000	0.017	4.0	
	14 55	0003			50.0
	14 55	0005	0.020		
	14 55	0016			5.0
	14 55	0030	0.015		
	14 55	0033			1.0
	14 55	0050	0.014		
	14 55	0065	0.013		
	14 55	0085	0.022		
	14 55	0100	0.034		
	14 55	0120	0.079		

STORET RETRIEVAL DATE 77/02/02

050407
36 28 23.0 092 54 07.0 3
BULL SHOALS LAKE
05009 ARKANSAS
100591

/TYPA/AMBNT/LAKE

11EPALES 04001002
0073 FEET DEPTH CLASS 00

DATE FROM TO	TIME OF DAY	DEPTH FEET	00010 WATER TEMP CENT	00300 DO MG/L	00077 TRANSP SECCHI INCHES	00094 CNDUCTVY FIELD MICROMHO	00400 PH SU	00410 T ALK CACO3 MG/L	00610 NH3-N TOTAL MG/L	00625 TOT KJEL N MG/L	00630 NO2&NO3 N-TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P
74/04/09	14 00	0000	10.5		84		8.50	112	0.040	0.300	0.460	0.005
	14 00	0005	10.3	11.8		20	8.50	112	0.030	0.300	0.460	0.004
	14 00	0020	10.2	10.8		105	8.20	118	0.050	0.200	0.450	0.003
	14 00	0065	9.6	11.6		165	8.50	115	0.040	0.300	0.430	0.004
74/06/21	16 05	0000	26.1	10.0	170	246	8.50	127	0.040	0.400	0.140	0.003
	16 05	0005	25.3	10.2		240	8.60	126	0.030	0.200	0.150	0.003
	16 05	0015	23.2	9.6		225	8.40	126	0.030	0.300	0.200	0.003
	16 05	0030	17.4	6.8		197	7.40	123	0.040	0.200	0.400	0.003
	16 05	0050	15.4	8.6		132	7.50	118	0.040	0.200K	0.540	0.006
	16 05	0075	15.0	8.2		182	7.80	118	0.050	0.200K	0.600	0.009
	16 05	0098	12.4	4.8		184	7.90	124	0.040	0.200K	0.600	0.008
74/09/05	13 35	0000	24.7	7.6	129	245	8.30	125	0.050	0.800	0.050	0.006
	13 35	0015	24.5	7.4		234	8.30	124	0.030	0.500	0.030	0.003
	13 35	0030	24.1	5.6		242	8.10	126	0.040	0.500	0.020	0.003
	13 35	0040	17.7	3.8		186	7.90	112	0.030	0.200K	0.380	0.002
	13 35	0050	16.9	4.4		175	7.80	108	0.030	0.200K	0.450	0.003
	13 35	0057	16.5	4.4		173	7.75	109	0.040	0.200K	0.470	0.006
74/10/10	15 10	0000	20.5	8.4	120	206	8.30	127	0.040	0.200K	0.090	0.004
	15 10	0005	19.7	7.6		203	8.30	127	0.020K	0.200K	0.080	0.003
	15 10	0010	19.7	7.6		203	8.30	128	0.020K	0.200K	0.080	0.002
	15 10	0030	19.6	7.6		203	8.20	127	0.020	0.200K	0.080	0.002
	15 10	0049	19.5	6.4		202	8.10	127	0.020K	0.200K	0.100	0.003
	15 10	0065	17.2	2.6		193	7.55	125	0.020K	0.200K	0.410	0.005
	15 10	0080	16.6	2.0		185	7.50	123	0.100	0.200K	0.370	0.007
	15 10	0095	16.4	0.6		187	7.40	126	0.330	0.500	0.180	0.006

K VALUE KNOWN TO BE
LESS THAN INDICATED

STORET RETRIEVAL DATE 77/02/02

050-07
36 28 23.0 092 54 07.0 3
BULL SHOALS LAKE
05009 ARKANSAS
100591

/TYPA/AMBNT/LAKE

11EPALES 04001002
0073 FEET DEPTH CLASS 00

DATE FROM TO	TIME OF DAY	DEPTH FEET	00665 PHOS-TOT MG/L P	32217 CHLRPHYL A UG/L	00031 INCDT LT REMNING PERCENT
74/04/09	14 00	0000	0.015	12.7	
	14 00	0005	0.015		
	14 00	0020	0.013		
	14 00	0065	0.015		
74/06/21	16 05	0000	0.012	5.6	
	16 05	0005	0.015		
	16 05	0015	0.017		
	16 05	0030	0.015		
	16 05	0050	0.016		
	16 05	0075	0.016		
	16 05	0098	0.015		
74/09/05	13 35	0000	0.023	3.4	
	13 35	0006			50.0
	13 35	0015	0.018		
	13 35	0019			5.0
	13 35	0030	0.018		
	13 35	0031			1.0
	13 35	0040	0.015		
	13 35	0050	0.014		
	13 35	0057	0.021		
74/10/10	15 10	0000	0.016	3.6	
	15 10	0005	0.015		
	15 10	0007			50.0
	15 10	0010	0.015		
	15 10	0019			5.0
	15 10	0029			1.0
	15 10	0030	0.014		
	15 10	0049	0.014		
	15 10	0065	0.016		
	15 10	0080	0.020		
	15 10	0095	0.040		

-001-

STORET RETRIEVAL DATE 76/01/13
NATL EUTHOPHICATION SURVEY
EPA-LAS VEGAS

050408
36 32 56.0 093 03 44.0
BULL SHOALS LAKE
05 ARKANSAS

11EPALES
3

2111202
0065 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00010 WATER TEMP CENT	00300 DO MG/L	00077 TRANSP SECCHI INCHES	00094 CNDUCTVY FIELD MICROMHO	00400 PH SU	00410 T ALK CACO3 MG/L	00610 NH3-N TOTAL MG/L	00625 TOT KJEL N MG/L	00630 NO2&NO3 N-TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P
74/04/09	14 40	0000	10.3		60		8.30	100	0.040	0.400	0.650	0.005
	14 40	0005	9.7	11.8		21	8.30	98	0.040	0.400	0.470	0.009
	14 40	0015	9.6	11.6		88	8.30	98	0.040	0.300	0.480	0.005
	14 40	0055	9.6	11.6		143	8.30	96	0.020	0.300	0.430	0.003
74/06/21	15 50	0000	27.7	9.8	130	270	8.70	127	0.140	1.600	0.100	0.015
	15 50	0005	25.9	10.8		269	8.80	125	0.050	0.600	0.060	0.009
	15 50	0010	23.9	10.2		254	9.10	125	0.050	0.500	0.070	0.008
	15 50	0015	22.1	11.4		240	8.70	122	0.050	0.500	0.140	0.008
	15 50	0020	20.3	11.0		228	8.60	116	0.030	0.400	0.240	0.007
	15 50	0025	15.3	9.6		191	8.20	104	0.030	0.400	0.480	0.006
	15 50	0035	14.7	9.8		185	7.90	102	0.040	0.300	0.540	0.006
	15 50	0053	14.7	9.4		187	8.20	105	0.040	0.300	0.560	0.006
74/09/05	13 05	0000	24.2	8.0	90	223	8.25	119	0.040	0.300	0.050	0.006
	13 05	0005	24.1	7.6		222	8.30	118	0.020	0.300	0.020	0.002
	13 05	0014	24.0	7.6		223	8.30	118	0.020	0.200	0.020	0.004
	13 05	0028	24.0	7.6		223	8.25	118	0.030	0.200	0.020	0.005
	13 05	0040	18.4	4.2		190	7.80	112	0.070	0.200	0.320	0.007
	13 05	0065	16.4	2.8		169	7.70	102	0.100	0.300	0.410	0.013
74/10/10	14 25	0000	20.0	8.4	84	198	8.40	128	0.060	0.200	0.030	0.005
	14 25	0005	19.2	8.0		196	8.40	128	0.040	0.200K	0.030	0.004
	14 25	0020	19.1	7.2		196	8.35	125	0.030	0.200K	0.030	0.004
	14 25	0040	18.7	6.8		197	8.10	127	0.050	0.200K	0.070	0.006
	14 25	0046	17.7	5.8		197	7.90	129	0.080	0.200K	0.140	0.009
	14 25	0057	17.0	4.4		200	7.70	134	0.150	0.200K	0.200	0.009

— K VALUE KNOWN TO BE LESS THAN INDICATED —

STORET RETRIEVAL DATE 76/01/13
NATL EUTROPHICATION SURVEY
EPA-LAS VEGAS

050408
36 32 56.0 093 03 44.0
BULL SHOALS LAKE
05 ARKANSAS

11EPALES 2111202
3 0065 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00665 PHOS-TOT MG/L P	32217 CHLRPHYL A UG/L	00031 INCDT LT REMNING PERCENT
74/04/09	14 40	0000	0.018	7.5	
	14 40	0005	0.018		
	14 40	0015	0.019		
	14 40	0056	0.022		
74/06/21	15 50	0000	0.043	10.0	
	15 50	0002			1.0
	15 50	0005	0.027		
	15 50	0010	0.032		
	15 50	0015	0.033		
	15 50	0020	0.033		
	15 50	0025	0.023		
	15 50	0035	0.023		
	15 50	0053	0.025		
74/09/05	13 05	0000	0.026	5.4	
	13 05	0005	0.022		
	13 05	0018	0.022		1.0
	13 05	0026	0.021		
	13 05	0040	0.024		
	13 05	0066	0.032		
74/10/10	14 25	0000	0.026	5.1	
	14 25	0003			50.0
	14 25	0005	0.022		
	14 25	0011			5.0
	14 25	0020	0.018		1.0
	14 25	0040	0.021		
	14 25	0046	0.025		
	14 25	0057	0.034		

STORET RETRIEVAL DATE 77/02/24

240401
36 39 28.0 093 07 29.0 3
LAKE TANEYCOMO
29213 MISSOURI
100591

/TYPA/AMBNT/LAKE

11EPALES 04001002
0048 FEET DEPTH CLASS 00

DATE FROM TO	TIME OF DAY	DEPTH FEET	00010 WATER TEMP CENT	00300 DO MG/L	00077 TRANSP SECCHI INCHES	00094 CNDUCTVY FIELD MICROMHO	00400 PH SU	00410 T ALK CACO3 MG/L	00610 NH3-N TOTAL MG/L	00625 TOT KJEL N MG/L	00630 NO2&NO3 N-TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P
74/04/10	09 50	0000	9.4		92	155	8.10	98	0.030	0.600	0.500	0.008
	09 50	0005	9.4	10.6		155	8.10	96	0.020K	0.200	0.500	0.004
	09 50	0020	9.3	10.2		154	8.00	96	0.030	0.200	0.510	0.005
	09 50	0040	9.3	10.4		155	8.00	95	0.020	0.200K	0.510	0.005
74/06/19	15 30	0000	15.3		72	173	8.00	99	0.060	0.300	0.670	0.007
	15 30	0005	14.6	7.2		164	7.90	100	0.050	0.200	0.620	0.004
	15 30	0015	14.4	7.0		165	7.90	101	0.040	0.200	0.600	0.004
	15 30	0025	14.2	7.0		167	7.90	101	0.040	0.200	0.590	0.004
	15 30	0042	14.1	7.2		167	8.00	103	0.050	0.200	0.600	0.004
74/08/30	14 20	0000	17.0	5.4	63	139	7.55	90	0.150	0.400	0.410	0.018
	14 20	0015	16.0	5.0		133	7.50	88	0.060	0.200	0.450	0.017
	14 20	0025	16.0	5.0		133	7.50	92	0.030	0.200	0.420	0.015
	14 20	0040	15.9	5.0		133	7.50	94	0.050	0.200	0.460	0.022
74/10/04	16 25	0000	16.0	7.2	72	153	7.25	95	0.030	0.400	0.320	0.007
	16 25	0005	15.9	6.4		155	7.23	94	0.020	0.200	0.310	0.005
	16 25	0015	15.4	5.2		155	7.13	96	0.060	0.300	0.340	0.006
	16 25	0025	15.4	4.6		153	7.09	94	0.030	0.300	0.330	0.008
	16 25	0040	15.3	5.2		153	7.11	93	0.040	0.400	0.310	0.010

K VALUE KNOWN TO BE
LESS THAN INDICATED

STORET RETRIEVAL DATE 77/02/24

290401
36 39 28.0 093 07 29.0 3
LAKE TANEYCOMO
29213 MISSOURI

100591

/TYPA/AMBNT/LAKE

11EPALES 04001002
0048 FEET DEPTH CLASS 00

DATE FROM TO	TIME OF DAY	DEPTH FEET	00665 PHOS-TOT MG/L P	32217 CHLRPHYL A UG/L	00031 INCDT LT REMNING PERCENT
74/04/10	09 50	0000	0.024	8.2	
	09 50	0005	0.018		
	09 50	0020	0.022		
	09 50	0040	0.022		
74/06/19	15 30	0000	0.021	0.6	
	15 30	0005	0.020		
	15 30	0015	0.020		
	15 30	0025	0.021		
	15 30	0042	0.019		
74/08/30	14 20	0000	0.068	1.4	
	14 20	0015	0.035		
	14 20	0025	0.036		
	14 20	0040	0.042		
74/10/04	16 25	0000	0.021	21.8	
	16 25	0004			1.0
	16 25	0005	0.019		
	16 25	0015	0.023		
	16 25	0025	0.023		
	16 25	0040	0.038		

STORET RETRIEVAL DATE 77/02/24

290402
36 41 28.0 093 11 41.0 3
LAKE TANEYCOMO
29213 MISSOURI

100591

/TYPA/AMBNT/LAKE

11EPALES 04001002
0036 FEET DEPTH CLASS 00

DATE FROM TO	TIME OF DAY	DEPTH FEET	00010 WATER TEMP CENT	00300 DO MG/L	00077 TRANSP SECCHI INCHES	00094 CNDUCTVY FIELD MICROMHO	00400 PH SU	00410 T ALK CACO3 MG/L	00610 NH3-N TOTAL MG/L	00625 TOT KJEL N MG/L	00630 NO2&NO3 N-TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P
74/04/10	10 35	0000	8.7		108	149	7.90	93	0.020	0.200	0.520	0.003
	10 35	0005	8.7	10.0		149	7.90	93	0.030	0.200K	0.520	0.005
	10 35	0025	8.7	9.8		149	7.90	93	0.030	0.200	0.530	0.005
	10 35	0030	8.7	10.4		149	8.00	95	0.020	0.200K	0.510	0.005
74/06/19	15 50	0000	13.9		95	160	8.00	100	0.060	0.400	0.590	0.013
	15 50	0005	14.0	7.6		157	7.90	101	0.050	0.200	0.590	0.007
	15 50	0015	14.0	6.8		156	7.90	95	0.040	0.200K	0.530	0.005
	15 50	0025	13.9	7.2		159	7.90	94	0.040	0.200K	0.580	0.005
	15 50	0034	13.9	6.8		161	7.90	96	0.040	0.200K	0.600	0.006
74/08/30	14 50	0000	14.8	3.8	84	139	7.50	100	0.030	0.300	0.510	0.018
	14 50	0015	14.7	4.0		139	7.40	99	0.020	0.200K	0.510	0.013
	14 50	0029	14.7	5.6		139	7.40	99	0.020	0.200K	0.500	0.013
74/10/04	15 15	0000	15.9	6.2	52	159	7.25	103	0.090	1.200	0.380	0.018
	15 15	0005	15.8	6.4		159	7.19	98	0.050	0.500	0.360	0.010
	15 15	0020	15.3	5.8		157	7.19	94	0.030	0.300	0.350	0.013
	15 15	0031	15.3	5.8		151	7.19	97	0.050	0.300	0.370	0.011

K VALUE KNOWN TO BE
LESS THAN INDICATED

STORET RETRIEVAL DATE 77/02/24

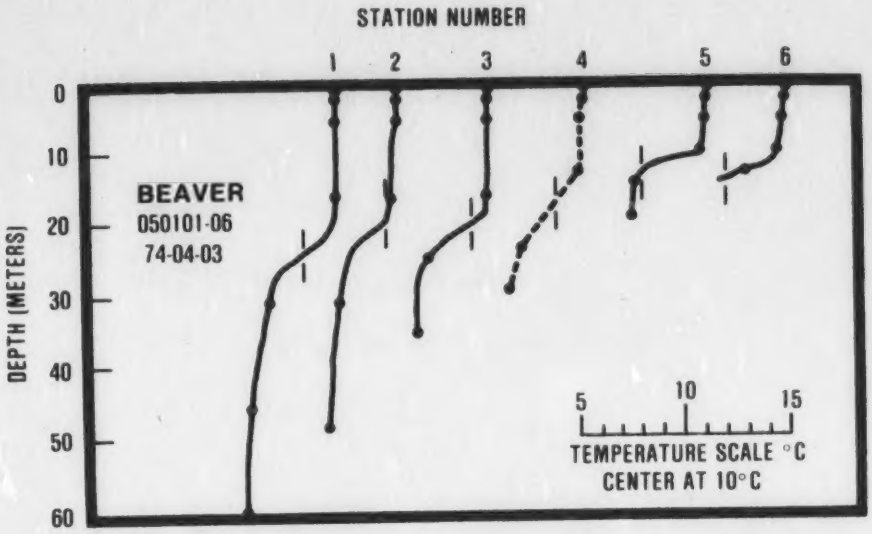
240402
36 41 28.0 093 11 41.0 3
LAKE TANEYCOMO
29213 MISSOURI
100591

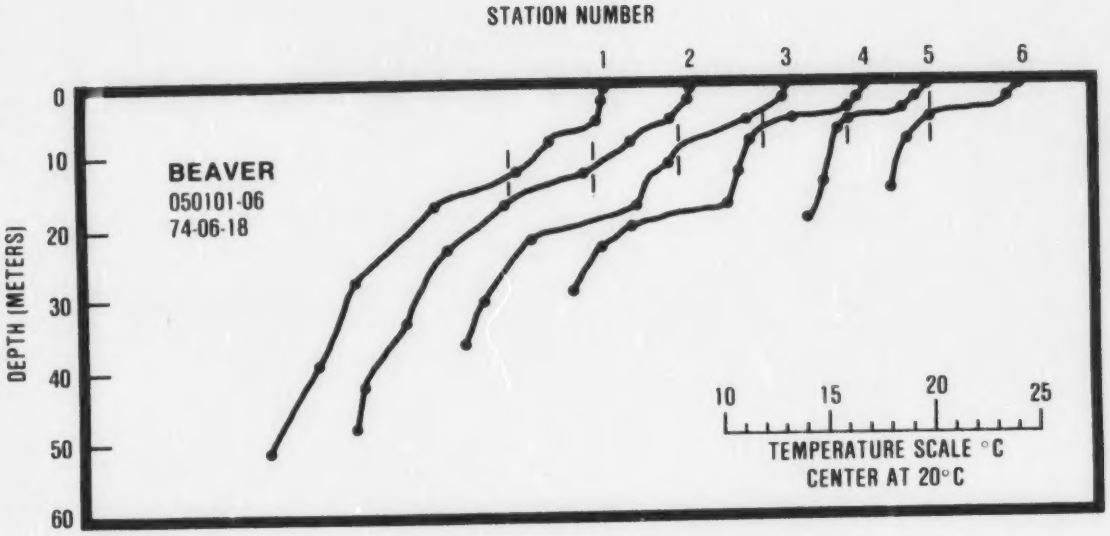
/TYPA/AMBNT/LAKE

11EPALES 04001002
0038 FEET DEPTH CLASS 00

DATE FROM TO	TIME OF DAY	DEPTH FEET	00665 PHOS-TOT MG/L P	32217 CHLRPHYL A UG/L	00031 INCDT LT REMNING PERCENT
74/04/10	10 35	0000	0.017	8.8	
	10 35	0005	0.018		
	10 35	0025	0.018		
	10 35	0030	0.019		
74/06/19	15 50	0000	0.021	0.3	
	15 50	0005	0.017		
	15 50	0015	0.023		
	15 50	0025	0.023		
	15 50	0034	0.023		
74/08/30	14 50	0000	0.034	0.7	
	14 50	0015	0.032		
	14 50	0029	0.031		
74/10/04	15 15	0000	0.051	36.8	
	15 15	0005	0.038		
	15 15	0008			1.0
	15 15	0020	0.032		
	15 15	0031	0.034		

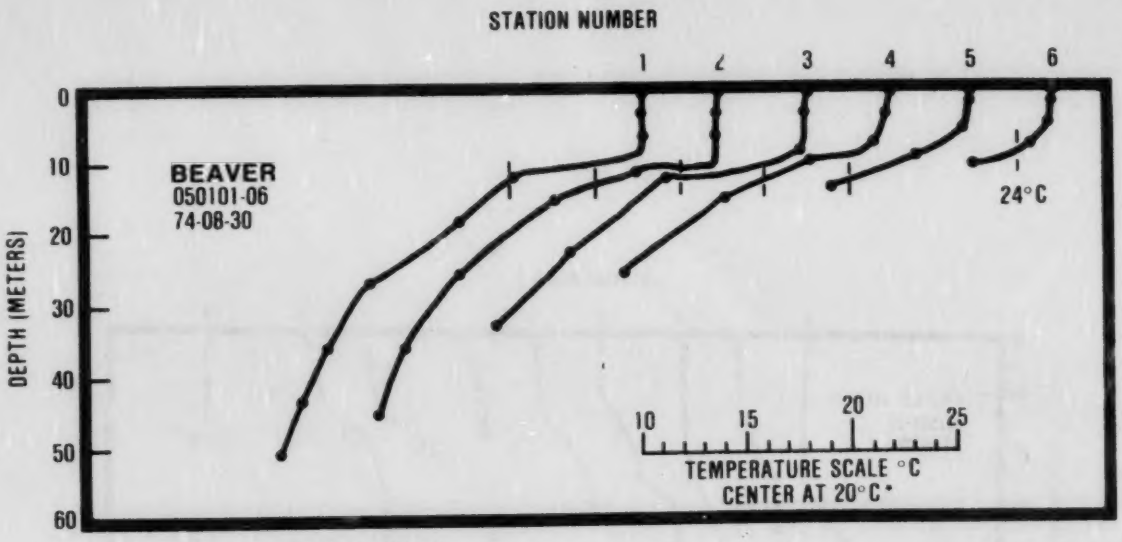
-191-


STATION NUMBER
1
2
3
4
5
6
0
10
20
30
40
50
60
DEPTH (METERS)
BEAVER
050101-06
74-04-03
5
10
15
TEMPERATURE SCALE °C
CENTER AT 10°C

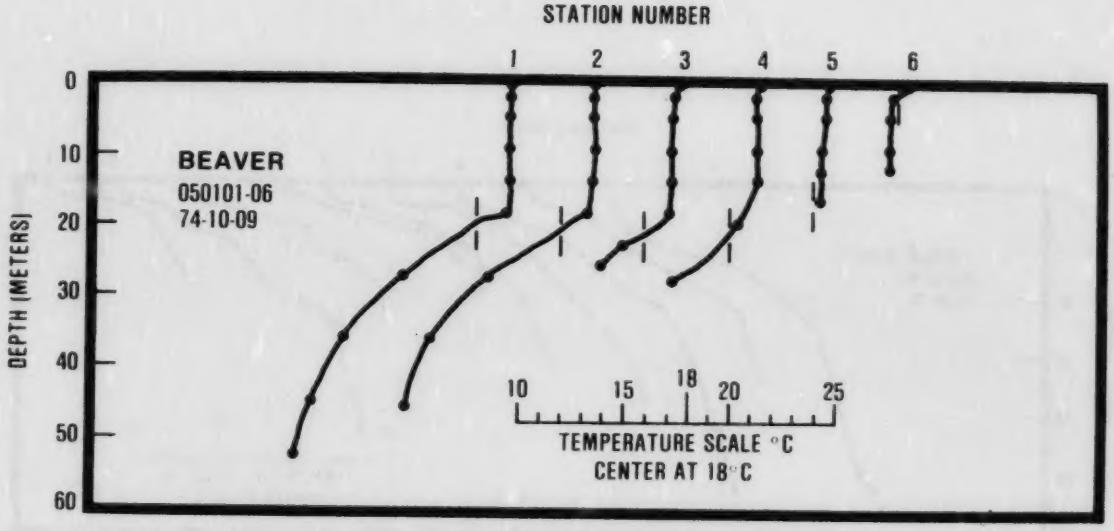

STATION NUMBER
1
2
3
4
5
6
0
10
20
30
40
50
60
DEPTH (METERS)
BEAVER
050101-06
74-06-18
10
15
20
25
TEMPERATURE SCALE °C
CENTER AT 20°C

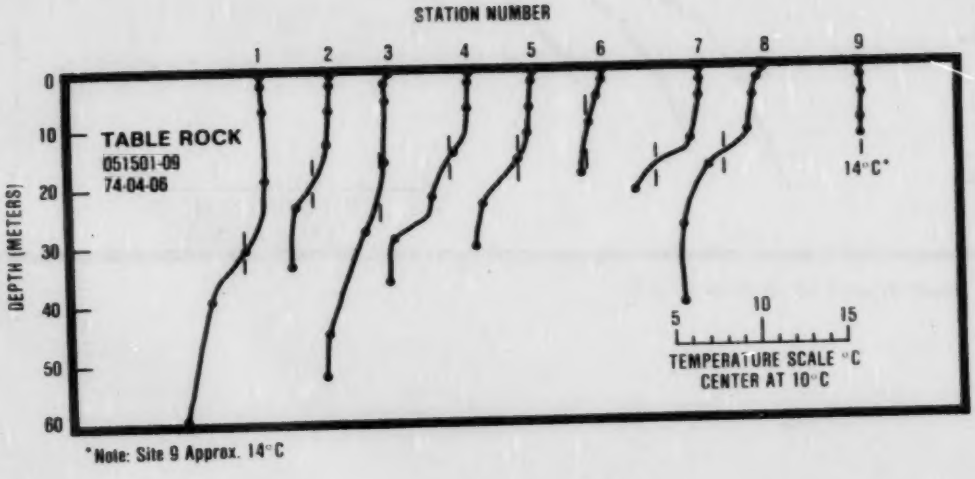
APPENDIX D

TEMPERATURE PROFILES

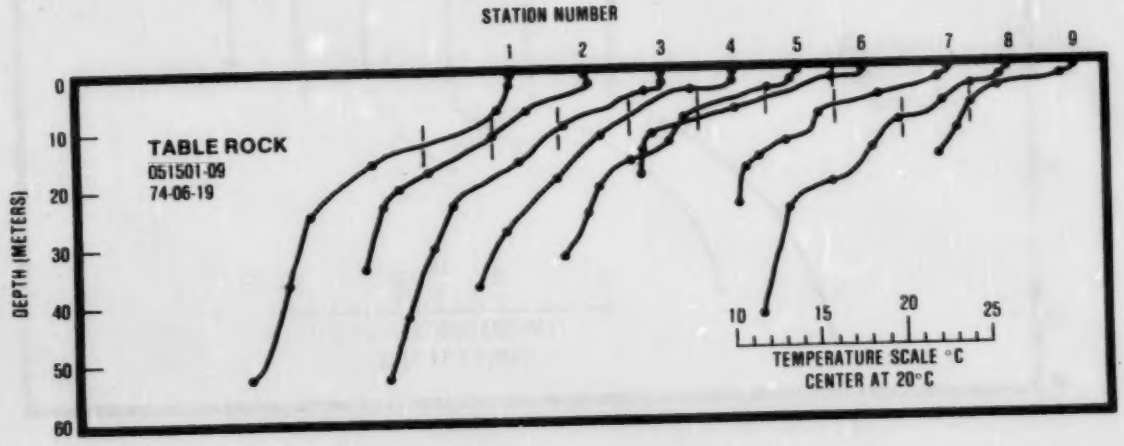


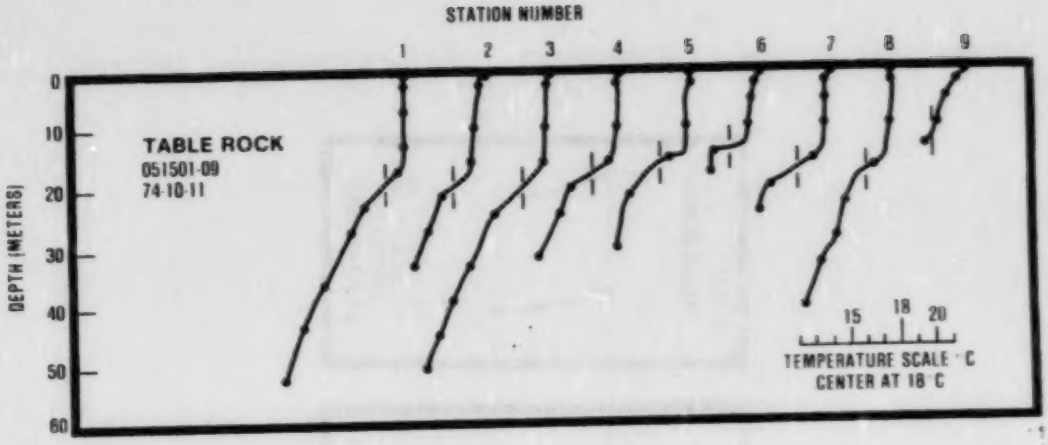
*Note: Station 6 Center Mark at 24°C

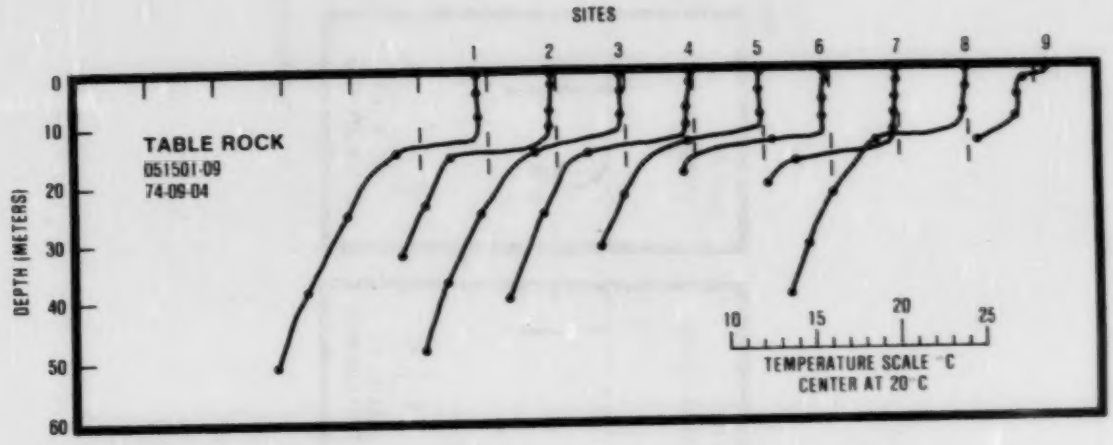


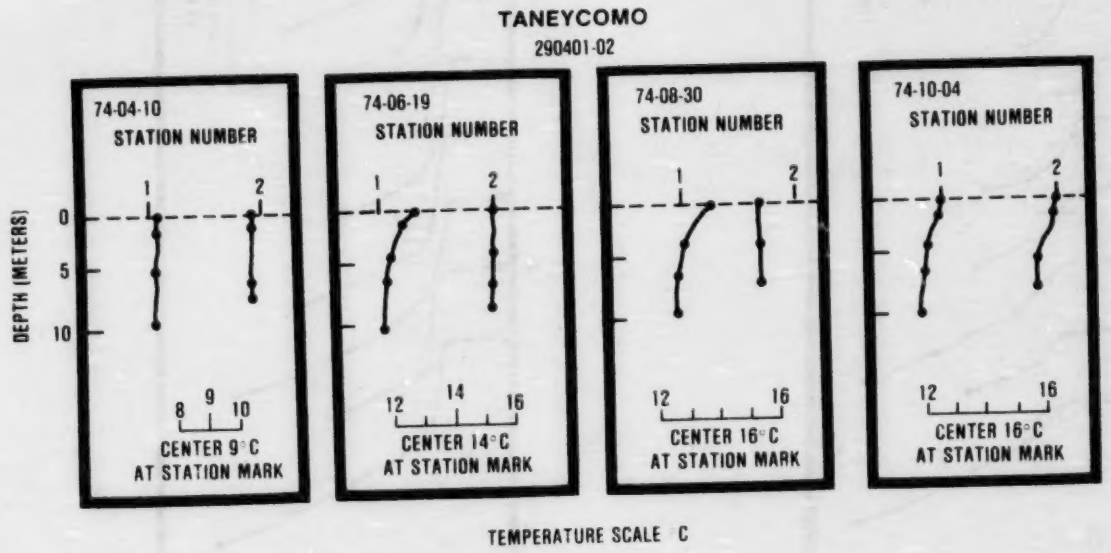


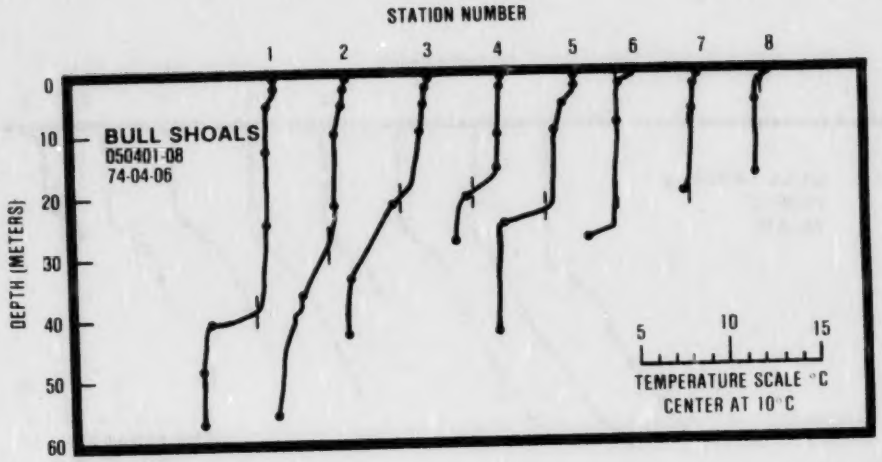
*Note: Site 9 Approx. 14°C

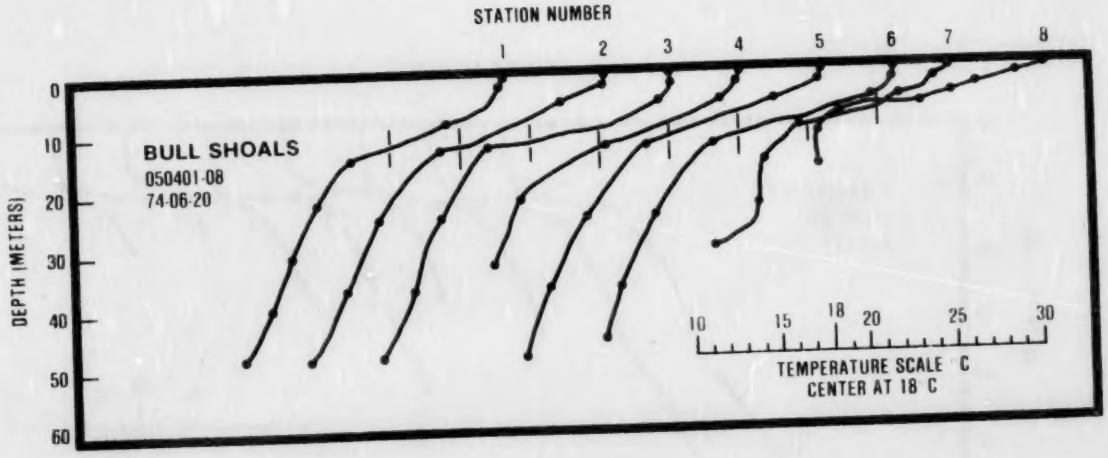


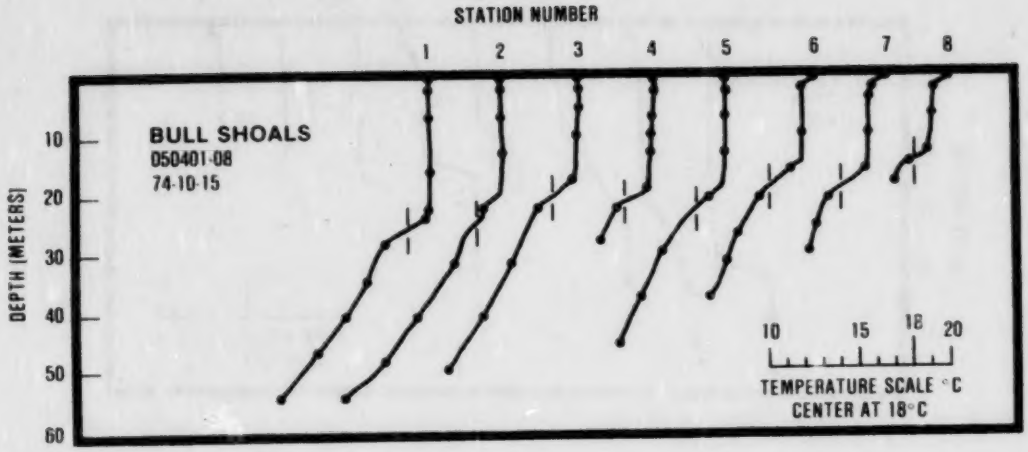

STATION NUMBER
1
2
3
4
5
6
7
8
9
0
10
20
30
40
50
60
DEPTH (METERS)
TABLE ROCK
051501-09
74-10-11
15
18
20
TEMPERATURE SCALE °C
CENTER AT 18°C

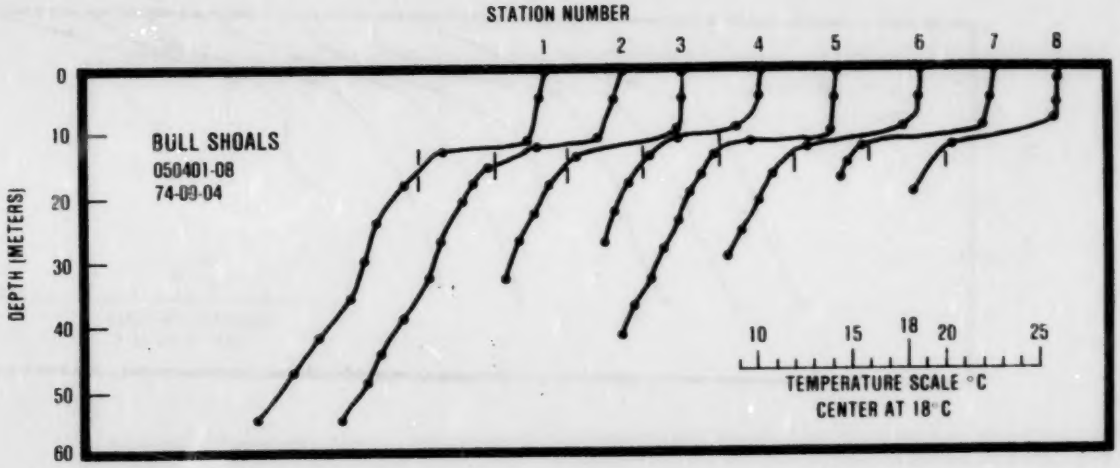

SITES
1
2
3
4
5
6
7
8
9
0
10
20
30
40
50
60
DEPTH (METERS)
TABLE ROCK
051501-09
74-09-04
10
15
20
25
TEMPERATURE SCALE °C
CENTER AT 20°C


TANEYCOMO
290401-02
74-04-10
STATION NUMBER
74-06-19
STATION NUMBER
74-08-30
STATION NUMBER
74-10-04
STATION NUMBER
DEPTH (METERS)
0
5
10
1
2
8 9 10
CENTER 9°C
AT STATION MARK
12 14 16
CENTER 14°C
AT STATION MARK
12 16
CENTER 16°C
AT STATION MARK
12 16
CENTER 16°C
AT STATION MARK
TEMPERATURE SCALE C


STATION NUMBER
1
2
3
4
5
6
7
8
0
10
20
30
40
50
60
DEPTH (METERS)
BULL SHOALS
050401-08
74-04-06
5
10
15
TEMPERATURE SCALE °C
CENTER AT 10 °C


STATION NUMBER
1
2
3
4
5
6
7
8
0
10
20
30
40
50
60
DEPTH (METERS)
BULL SHOALS
050401-08
74-06-20
10
15
18
20
25
30
TEMPERATURE SCALE °C
CENTER AT 18 °C


STATION NUMBER
1 2 3 4 5 6 7 8
BULL SHOALS
050401-08
74-10-15
DEPTH (METERS)
10
20
30
40
50
60
10 15 18 20
TEMPERATURE SCALE °C
CENTER AT 18°C


STATION NUMBER
1 2 3 4 5 6 7 8
BULL SHOALS
050401-08
74-09-04
DEPTH (METERS)
0
10
20
30
40
50
60
10 15 18 20 25
TEMPERATURE SCALE °C
CENTER AT 18°C

APPENDIX E

TRIBUTARY AND WASTEWATER TREATMENT PLANT DATA

STORET RETRIEVAL DATE 75/11/28
NATL EUTROPHICATION SURVEY
EPA- LAS VEGAS

05DIAL
36 25 15.0 093 50 50.0
WHITE RIVER
05 7.5 BEAVER
O/BEAVER RESERVOIR
BEAVER DAM POWERHOUSE TURBINE DISCH
11EPALCS 2111204
0000 FEET DEPTH
+

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
74/06/22	12 45		0.390	0.200	0.010	0.005K	0.015
74/07/20	11 30		0.680	1.700	0.010	0.005	0.005
74/08/17	14 00		0.780	0.200	0.020	0.005K	0.020
74/09/21	15 00		1.240	0.200	0.005	0.010	0.010
74/10/19	12 20		0.480	0.300	0.025	0.005	0.020
74/12/21	13 30		0.136	0.300	0.025	0.005K	0.020
75/01/19	14 00		0.152	0.700	0.024	0.005K	0.010K
75/02/28	15 15		0.152	0.300	0.024	0.008K	0.010
75/03/13	13 20		0.152	0.600	0.040	0.008K	0.030
75/03/27	16 00		0.160	0.250	0.009	0.005K	0.010K
75/04/05	13 00		0.180	0.150	0.010	0.005K	0.020
75/04/20	13 20		0.210	0.500	0.030	0.005	0.010
75/05/18	15 00		0.200	0.150	0.035		0.010K

— K VALUE KNOWN TO BE LESS THAN INDICATED —

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STORET RETRIEVAL DATE 75/11/28
NATL EUTROPHICATION SURVEY
EPA- LAS VEGAS

0501A2
36 04 25.0 094 04 53.0
WHITE RIVER
05 7.5 ELKINS
T/BEAVER RESERVOIR
2NDRY RD BRDG 2.1 MI W OF AR HWY 16 JCT
11ePALES 2111204
0000 FEET DEPTH
+

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO3&NO2 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
74/06/22	12 00		0.080	0.200	0.015	0.005K	0.030
74/07/20	11 00		0.112	0.100K	0.010	0.010	0.025
74/08/17	14 45		0.108	2.200	0.035		0.105
74/09/21	10 30		0.384	0.600	0.025	0.020	0.115
74/10/20	09 45		0.128	0.200	0.020	0.005K	0.020
74/11/24	10 05		0.256	0.400	0.032	0.016	0.030
74/12/21	11 30		0.200	0.100	0.020	0.005K	0.030
75/01/19	10 10		0.184	0.400	0.016	0.005	0.025
75/02/28	09 15		0.280	0.400	0.040	0.008	0.040
75/03/13	13 15		0.212	0.400	0.028	0.008	0.070
75/03/23	10 00		0.182	0.500	0.023	0.007	0.040
75/04/05	10 00		0.175	0.700	0.025	0.005K	0.040
75/04/20	10 00		0.080	0.450	0.035	0.005K	0.020
75/05/11	09 10		0.105	0.600	0.065	0.010	0.060

— K VALUE KNOWN TO BE LESS THAN — INDICATED

STORET RETRIEVAL DATE 75/11/28
NATL EUTROPHICATION SURVEY
EPA- LAS VEGAS

050131
36 18 50.0 093 48 45.0
BIG CLIFTY CREEK
05 7.5 MUNDELL
T/BEAVER RESERVOIR
BANK OFF 2NDRY RD 3 MI W AP HWY 23 JCT
11EPALFS 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
74/06/22	11 40		0.056	1.300	0.065	0.005K	0.020
74/07/20	11 30		0.068	0.400	0.020	0.010	0.020
74/08/17	12 00		0.036	0.400	0.010	0.031	0.035
74/09/21	12 00		0.044	0.500	0.012	0.017	0.035
74/10/19	11 00		0.024	0.800	0.030	0.010	0.030
74/12/21	11 21		0.086	0.200	0.020	0.005K	0.020
75/01/19	13 00		0.104	0.600	0.024	0.005K	0.010K
75/02/28	16 45		0.160	2.100	0.316	0.088	
75/03/13	11 40		0.144	0.100K	0.015	0.008K	0.035
75/03/22	18 00		0.133	0.200	0.009	0.004	0.010K
75/04/05	11 00		0.080	0.250	0.050	0.010	0.030
75/04/20	11 15		0.080	0.250	0.020	0.005	0.020
75/05/18	13 30		0.200	0.050	0.020	0.020	0.020

— K VALUE KNOWN TO BE LESS THAN INDICATED —

-811-

STORET RETRIEVAL DATE 75/11/28
NATL EUTROPHICATION SURVEY
EPA- LAS VEGAS

0501C1
36 16 05.0 093 56 40.0
WAR EAGLE CREEK
05 7.5 WAR EAGLE
T/BEAVER RESERVOIR
BRDG AT WAR EAGLE
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
74/06/22	10 00		0.504	0.500	0.030	0.005K	0.010
74/07/20	10 30		0.490	0.200	0.010	0.005	0.020
74/08/17	10 00		0.380	0.200	0.010	0.010	0.020
74/09/21	11 00		0.410	0.900	0.035	0.045	0.160
74/10/19	10 04		0.232	2.100	0.060	0.005	0.020
74/12/21	10 00		0.432	0.300	0.015	0.005K	0.015
75/01/19	11 00		0.480	0.200	0.032	0.005	0.010K
75/02/28	17 23		0.624	0.300	0.088	0.016	0.030
75/03/13	10 45		0.408	0.400	0.016	0.025	0.090
75/03/22	19 00		0.546	0.100	0.006	0.008	0.030
75/04/04	10 00		0.525		0.005	0.005	0.020
75/04/19	09 40		0.290	C.950	0.055	0.007	0.020
75/05/11	12 00		0.380	0.500	0.030	0.005	0.050
75/05/19	15 35		0.200	2.800	0.430	0.037	

— K VALUE KNOWN TO BE LESS THAN INDICATED —

-119-

STORET RETRIEVAL DATE 75/11/28
NATL EUTROPHICATION SURVEY
EPA- LAS VEGAS

050101
36 08 55.0 093 58 27.0
WHITENER CREEK
05 7.5 SPRING VALLY
T/BEAVER RESERVOIR
150 FT S OF 2NDARY RD 4 MI SW SPRNG VLLY
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
74/06/22	15 30		1.040	0.100K	0.005	0.020	0.030
74/11/24	09 00		1.100L	0.300	0.016	0.024	0.050
75/01/19	08 50		0.790	0.300	0.008K	0.005	0.010K
75/02/28	08 30		1.600	0.200	0.024	0.032	0.032
75/03/13	10 00		1.420	0.900	0.028	0.024	0.060
75/03/23	09 15		1.445	0.900	0.024	0.015	0.020
75/04/06	09 00		1.350	0.975	0.015	0.025	0.040
75/04/19	09 30		0.030	1.950	0.045		0.010

— K VALUE KNOWN TO BE LESS THAN INDICATED —

STORET RETRIEVAL DATE 75/11/28
NATL EUTROPHICATION SURVEY
EPA- LAS VEGAS

0501E1
36 09 00.0 094 58 30.0
BRUSH CREEK
05 7.5 SPRING VALLY
T/BEAVER RESERVOIR
AR HWY 45 BRDG 0.3 MI SW OF MAYFIELD
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
74/06/22	15 50		0.870	0.100K	0.005	0.005	0.015
74/07/20	09 00		0.890	1.000	0.055	0.015	0.015
74/08/18	12 30		0.740	0.100K	0.010	0.015	0.015
74/09/21	09 30		0.540	0.900	0.165	0.060	0.085
74/10/20	09 00		0.464	0.400	0.020	0.010	0.010
74/11/24	09 15		0.920	0.100K	0.016	0.008	0.010K
75/01/19	09 10		0.704	0.150	0.008K	0.010	0.010
75/02/28	08 45		0.800	0.500	0.016	0.016	0.030
75/03/13	10 15		0.630	0.800	0.032	0.016	0.040
75/03/23	09 30		0.655	0.400	0.015	0.010	0.010
75/04/06	09 15		0.720	0.850	0.030	0.010	0.020
75/04/19	09 15		0.490	0.250	0.015	0.010	0.010
75/05/11	08 45		0.640	0.550	0.020	0.015	0.035

— K VALUE KNOWN TO BE LESS THAN INDICATED —

-12/-

STORET RETRIEVAL DATE 75/11/28
NATL EUTROPHICATION SURVEY
EPA- LAS VEGAS

0501F1
36 05 00.0 094 59 05.0
DRY CREEK
05 7.5 GOSHEN
T/BEAVER RESERVOIR
2NDRY RD BRDG 1.5 MI S OF AR HWY 45 JCT
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
74/09/21	09 45		0.900	0.800	0.025	0.035	0.050
74/12/21	09 30		0.576	0.200	0.010	0.010	0.020
75/02/28	08 49		0.704	0.500	0.056	0.016	0.040
75/03/13	11 00		0.750	0.400	0.012	0.024	0.050
75/03/23	09 45		0.640	0.600	0.015	0.018	0.030
75/04/06	09 45		0.190	1.200	0.045	0.010	0.040

STORET RETRIEVAL DATE 75/11/28
NATL EUTROPHICATION SURVEY
EPA- LAS VEGAS

0501G1
36 04 25.0 094 59 30.0
RICHLAND CREEK
05 7.5 GOSHEN
T/BEAVER RESERVOIR
RD XING 2.6 MI S OF GOSHEN
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
74/06/22	16 30		0.540	0.100K	0.010	0.005K	0.020
74/07/20	09 15		0.420	0.500	0.030	0.005	0.025
74/09/21	10 00		0.640	0.700	0.030	0.025	0.060
74/10/20	09 20		0.416	0.300	0.015	0.010	0.010
74/11/24	09 40		0.624	0.100K	0.016	0.008	0.020
74/12/21	10 06		0.464	0.200	0.025	0.010	0.020
75/01/19	09 35		0.320	0.200	0.008K	0.005	0.010K
75/02/28	09 00		0.520	0.300	0.016	0.016	0.030
75/03/13	11 30		0.368	0.300	0.008	0.008	0.050
75/03/23	09 55		0.340	0.500	0.022	0.009	0.020
75/04/06	09 30		0.320	0.700	0.015	0.005	0.030
75/04/20	09 30		0.220	0.550	0.035	0.025	0.020
75/05/11	09 10		0.260	0.650	0.015	0.010	0.040

— K VALUE KNOWN TO BE LESS THAN INDICATED —

STORET RETRIEVAL DATE 75/11/28
NATL EUTROPHICATION SURVEY
EPA- LAS VEGAS

0501H1
36 20 45.0 094 05 10.0
PRAIRIE CREEK
05 7.5 ROGERS
T/BEAVER RESERVOIR
2NDRY RD BRDG 200 FT S OF AR HWY 12 JCT
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
74/06/22	09	10	1.430	0.600	0.030	0.005	0.025
74/07/20	09	30	1.760	0.200	0.015	0.010	0.015
74/08/18	09	00	1.440	0.100	0.005	0.012	0.015
74/09/21	09	00	1.440	0.500	0.020	0.010	0.015
74/10/19	09	30	1.680	0.300	0.025	0.010	0.010
74/12/21	09	30	2.240	0.400	0.020	0.005K	0.010K
75/01/19	10	00	2.400	0.600	0.016	0.005	0.010K
75/02/28	18	00	2.320	0.100	0.024	0.008	0.020
75/03/13	10	25	2.000	0.200	0.012	0.008	0.050
75/03/22	20	00	2.000	0.250	0.005	0.007	0.020
75/04/05	09	00	2.100	0.600	0.035	0.010	0.020
75/04/20	09	15	2.100	0.700	0.030	0.009	0.010K
75/05/18	11	00	0.200	0.250	0.050		0.020

— K VALUE KNOWN TO BE LESS THAN INDICATED —

STORET RETRIEVAL DATE 75/11/28
NATL EUTROPHICATION SURVEY
EPA- LAS VEGAS

0501AA AS0501AA P040000*
36 03 00.0 094 07 30.0
FAYETTEVILLE
05 7.5 FAYETTEVILLE
T/6BEAVER LAKE
WHITE RIVER
11EPALES 2141204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P	50051 FLOW RATE INST MGD	50053 CONDUIT FLOW-MGD MONTHLY
75/01/16	00	00							
CP(T)-			0.164	10.000	0.205	0.037	2.400	7.480	7.500
75/01/16	24	00							
75/02/26	00	01							
CP(T)-			0.240	21.000	12.500	1.400	2.200	14.900	7.500
75/02/26	24	00							
75/03/24	01	00							
CP(T)-			0.160	8.800	1.400	1.800	2.500	7.340	8.720
75/03/24	24	00							
75/04/15	00	01							
CP(T)-			0.050	14.500	4.800	4.100	4.800	6.450	7.000
75/04/15	23	59							
75/04/30	00	01							
CP(T)-			0.050	12.000	2.000	3.750	4.900	7.100	7.400
75/04/30	23	59							
75/05/19	00	01							
CP(T)-			0.050	19.500	8.000	3.900	4.100	4.380	7.400
75/05/19	24	00							
75/06/03	00	01							
CP(T)-			0.050	16.500	6.200	3.500	3.600	4.800	5.200
75/06/03	24	00							
75/06/17	00	01							
CP(T)-			0.050	14.300	1.750	7.100	8.350	11.100	10.400
75/06/17	24	00							
75/07/02	00	01							
CP(T)-			0.025	13.500	7.600	3.600	3.600	5.080	4.590
75/07/02	24	00							
75/07/15	00	00							
CP(T)-			0.025	24.000	11.000	6.600	7.100	3.600	3.400
75/07/15	24	00							
75/07/29	00	00							
CP(T)-			0.025	20.000	8.700	5.500	6.000	4.910	5.100
75/07/29	24	00							
75/08/21	00	00							
CP(T)-			0.104	13.000	2.350	4.500	4.500	9.070	9.100
75/08/21	24	00							
75/08/26	00	00							
CP(T)-			0.050	17.500	6.300	5.800	6.300	6.910	7.400
75/08/26	24	00							

STORET RETRIEVAL DATE 75/11/28
NATL EUTROPHICATION SURVEY
EPA- LAS VEGAS

0501YA TF0501YA P001287
36 36 00.0 093 43 45.0
HUNTSVILLE
05 MADISON CO.
T/BEAVER LAKE
HOLMAN CREEK TO WAR EAGLE
11EPALES 2141204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P	50051 FLOW RATE INST MGD	50053 CONDUIT FLOW-MGD MONTHLY
75/01/29	09 45		9.750	3.400	0.365	8.600	10.500		0.250
75/02/28	13 00		1.920	9.000	0.080K	1.780	3.600		0.250
75/03/31	13 30		5.400		0.340	2.400			0.250
75/04/16	09 00		8.200	1.700	0.250		9.100		0.250
75/04/29	10 30		7.800	2.900	0.280	8.900	9.400		0.250
75/05/15	11 30		14.000		0.210	11.000			0.250
75/06/03	14 00		6.900	4.600	0.190	5.800	7.100		
75/06/16	10 45		5.900	10.000	1.250	7.900	9.200		
75/07/01	10 40		5.250	6.900	0.890	7.300	8.500		
75/07/31	13 30		5.600	10.000	2.880	4.400	5.200		

STORET RETRIEVAL DATE 75/11/28
NATL EUTROPHICATION SURVEY
EPA- LAS VEGAS

0515A1
36 35 40.0 093 18 35.0
WHITE RIVER
05 7.5 TABLE ROCK D
0/TABLE ROCK RES
TBL ROCK DAM SPILLWAY 6 MI SW OF BRANSON
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
74/09/14	19 30		0.440	0.300	0.015	0.015	0.015
74/10/06	10 50		1.760	1.400	0.040	0.015	0.020
74/11/03	12 15		0.416	0.900	0.070	0.020	0.020
74/12/08	11 05		0.212	1.000	0.055	0.007	0.010K
75/01/05	11 15		0.451	0.400	0.021	0.017	0.020
75/02/09	13 00		0.432	1.100	0.032	0.016	0.016
75/03/02	11 00		0.416	0.900	0.028	0.005	0.020
75/04/06	11 00		0.450	0.525	0.005	0.010	0.015
75/04/19	11 30		0.520	1.500	0.035	0.012	0.020
75/05/04	12 20		0.510	1.000	0.035	0.010	0.020
75/05/09	12 00		0.810	1.250	0.075	0.022	
75/05/18	12 45		0.750	1.850	0.040	0.020	0.020
75/07/01	13 54				0.050	0.020	
75/09/17	12 55		0.790	0.650	0.025	0.015	0.030

STORET RETRIEVAL DATE 75/11/28
NATL EUTROPHICATION SURVEY
EPA- LAS VEGAS

0515A2
36 26 55.0 093 49 20.0
WHITE RIVER
05 7.5 BEAVER
T/TABLE ROCK RES
BRDG US RT 62 2.5 MI NE BEAVER LAKE DAM
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
74/09/14	13 15		0.410	1.100	0.025	0.005K	0.040
74/10/06	11 30		0.464	0.800	0.025	0.005K	0.010
74/11/03	13 00		0.240	0.700	0.080	0.010	0.010
75/01/05	13 30		0.130	0.700	0.290	0.008	0.010K
75/02/09	12 00		0.168	2.200	0.048	0.008K	0.010K
75/03/02	12 30		0.152	1.100	0.028	0.008K	0.010
75/04/06			0.190	0.950	0.080	0.005K	0.030
75/05/03	11 30		0.190	0.700	0.010	0.005K	0.010K
75/05/18	16 20		0.175	0.350	0.020	0.005K	0.010K
75/06/08	13 00		0.220	0.300	0.060	0.005K	0.010K
75/06/21	09 30		0.310		0.015	0.005	
75/08/17	14 00		0.280	0.750	0.040	0.005K	0.010

STORET RETRIEVAL DATE 75/11/28
NATL EUTROPHICATION SURVEY
EPA- LAS VEGAS

051581
36 31 55.0 093 27 45.0
LT INDIAN CREEK
05 STONE COUNTY
T/TABLE ROCK RES
BRDG STATE HWY 86 2.5 MI W STATE HWY 13
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
74/09/14	13 15		0.700	0.850	0.005K	0.005	
74/10/06	09 47		0.790	0.800	0.045	0.005	0.005
74/11/03	10 35		0.448	0.800	0.025	0.030	0.035
74/12/08	10 12		0.432	1.100	0.035	0.010	0.010
75/01/05	10 17		0.533	0.400	0.033	0.010	0.010
75/02/09	11 25		0.610	0.550	0.024	0.008K	0.010K
75/03/02	10 05		0.540	0.450	0.020	0.005	0.010
75/04/06	10 00		0.630	0.650	0.060	0.010	0.010
75/04/19	10 35		0.620	1.600	0.025	0.010	0.010
75/05/04	11 20		0.510	1.950	0.015	0.010	0.010
75/05/08	14 00		1.600	1.200	0.055	0.021	
75/05/18	11 50		0.900	1.150	0.020	0.010	0.010
75/07/01	13 02				0.060	0.005	
75/08/17	12 06		0.820	0.400	0.020	0.010	0.015

STORET RETRIEVAL DATE 75/11/28
NATL EUTROPHICATION SURVEY
EPA- LAS VEGAS

0515C1
36 47 40.0 093 25 20.0
RAILEY CREEK
05 7.5 GALENA MO
T/TABLE ROCK RES
2NDRY RD BRDG 2 MI N HWY 13 JCT
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
74/09/15	10 30		1.160	0.900	0.015	0.015	0.015
74/10/05	09 50		1.240	0.500	0.155	0.005	0.005
74/11/02	10 00		2.360	0.550	0.035	0.005	0.012
74/12/07	10 25		1.170	1.600	0.020	0.010	0.010
75/01/04	10 10		1.060	3.400	0.032	0.025	0.060
75/02/08	10 00		1.000	0.200	0.040	0.008K	0.010
75/03/08	10 45		0.945	0.550	0.030	0.005	0.010K
75/04/05	09 15		0.860	0.050	0.015	0.010	0.010
75/04/19	09 30		0.760	1.800	0.015	0.010	0.010
	12 00		1.350	0.750	0.010	0.015	0.030
75/05/03	09 25		0.550	1.700	0.025	0.010	0.010
75/05/17	09 25		0.560	0.500	0.050	0.009	0.010K
75/06/07	09 20		0.770	0.925	0.020	0.010	0.020
75/07/13	08 55		0.600		0.015	0.005	
75/08/09	10 10		0.760	0.500	0.040	0.010	0.020

STORET RETRIEVAL DATE 75/11/28
NATL EUTROPHICATION SURVEY
EPA- LAS VEGAS

05150I
36 48 20.0 093 27 35.0
JAMES RIVER
05 7.5 GALENA MO
T/TABLE ROCK RES
BRDG ON HWY 44 .1 MI W HWY 13 JCT
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
74/09/15	11	00	1.820	0.700	0.010	0.420	0.420
74/10/05	10	10	1.920	1.500	0.045	0.375	0.390
74/11/02	10	15	1.920	1.100	0.138	0.260	0.260
74/12/07	10	35	2.330	2.200	0.080	0.210	0.235
75/01/04	10	17	2.000	5.400	0.400	0.080	0.096
75/02/08	10	15	1.450	0.400	0.064	0.104	0.110
75/03/08	11	10	2.200	1.100	0.175	0.105	0.140
75/04/05	09	30	2.000	1.900	0.085	0.080	0.080
75/04/19	09	45	1.900	1.550	0.050	0.165	0.170
75/05/03	09	40	1.350	0.450	0.085	0.090	0.090
75/05/17	09	35	1.570	1.250	C.230	0.220	0.230
75/06/07	09	35	2.000	1.750	0.055	0.290	0.320
75/07/13	09	05			0.025	0.460	
75/08/09	10	25	1.285	C.950	0.035	0.490	0.520

-13-

STORET RETRIEVAL DATE 75/11/28
NATL EUTROPHICATION SURVEY
EPA- LAS VEGAS

0515E1
36 45 30.0 093 34 15.0
FLAT CREEK
05 15 AURORA
T/TABLE ROCK RES
FIRST BRDG E OF BARRY
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
74/09/15	12 00		1.010	1.200	0.020	0.010	0.015
74/10/05	10 45		1.080	2.500	0.030	0.010	0.010
74/11/02	11 00		1.000	1.300	0.035	0.015	0.015
74/12/07	11 05		0.990	1.900	0.070	0.010	0.010
75/01/04	10 45		1.160	2.900	0.248	0.015	0.100
75/02/08	12 25		2.100	1.100	0.032	0.016	0.016
75/03/08	11 45		1.200	0.050	0.045	0.015	0.015
75/04/05	10 40		1.050	2.300	0.360	0.015	0.020
75/04/19	11 00		1.000	1.650	0.030	0.010	0.010
75/05/03	11 35		0.850	1.650	0.025	0.017	0.030
75/05/17	10 15		0.790	1.200	0.060	0.010	0.010
75/06/07	11 15		1.000	0.850	0.040	0.020	0.030
75/07/13	10 30			1.800	0.020	0.010	
75/08/09	11 45		0.640	0.450	0.085	0.015	0.015

STORET RETRIEVAL DATE 75/11/28
NATL EUTROPHICATION SURVEY
EPA- LAS VEGAS

0515F1
36 36 10.0 093 42 05.0
ROCK CREEK
05 15 SHELL KNOB MO
T/TABLE ROCK RES
BNK 0.2 MI FROM BRDG ON HWY 39 DOWNSTREA
11EPALFS 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
74/09/14	11	45	0.184	0.900	0.005	0.005K	0.055
74/10/06	13	15	0.040	0.800	0.040	0.005K	0.005K
74/11/03	16	30	0.112	1.000	0.045	0.015	0.030
74/12/08	09	25	0.048	1.000	0.020	0.005K	0.010K
75/01/05	09	20	0.043	0.400	0.015	0.005	0.010K
75/02/09	10	30	0.032	1.100	0.032	0.008K	0.010K
75/03/02	09	45	0.055	0.750	0.025	0.005K	0.010K
75/04/06	09	20	0.020	0.400	0.005		0.010K
75/04/19	09	45	0.015	0.550	0.195	0.005	0.010K
75/05/04	10	20	0.005	2.400	0.015	0.005K	0.010K
75/05/18	11	05	0.010	1.900	0.025	0.005K	0.010K
75/06/08	10	29	0.020	0.400	0.020	0.005K	0.010K
75/07/13	12	16		0.550	0.145	0.005	
75/08/17	11	22	0.075	0.400	0.025	0.005	0.017

STORET RETRIEVAL DATE 75/11/28
NATL EUTROPHICATION SURVEY
EPA- LAS VEGAS

0515G1
36 33 05.0 093 45 29.0
ROARING RIVER
05 15 CASSVILLE
T/TABLE ROCK RES
BRDG ON HWY 86 1 MI S HWY F JCT
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
74/09/14	11 00		1.160	1.000	0.020	0.010	0.035
74/10/06	09 30		1.280	1.100	0.025	0.010	0.015
74/11/03	10 00		0.304	1.600	0.050	0.075	0.120
74/12/08	10 30		1.040	0.900	0.010	0.005	
75/01/05	11 00		0.949	0.600	0.012	0.015	0.020
75/02/09	09 50		1.010	0.400	0.024	0.008	0.010K
75/03/02	13 30		0.835	0.500	0.012	0.008	0.020
75/04/06	11 00		1.150	1.350	0.005	0.015	0.015
75/04/19	12 00		0.200	1.050	0.025	0.005K	0.010K
75/05/04	10 40		0.660	1.850	0.020	0.010	0.010
75/05/18	15 00		0.980	1.800	0.080	0.011	0.011
75/06/08	12 00		1.400	1.200	0.035	0.015	0.020
75/06/26	08 00			0.500	0.080	0.015	
75/08/17	13 00		1.640	0.250	0.020	0.015	0.017

STORET RETRIEVAL DATE 75/11/28
NATL EUTROPHICATION SURVEY
EPA- LAS VEGAS

0515H1
36 28 35.0 093 47 40.0
BUTLER CREEK
05 7.5 BEAVER
T/TABLE ROCK RES
BNK 50 FT W OF BRDG 3 MI W OF BEAVER
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
74/09/14	14	15	1.040	0.200	0.010	0.005K	0.015
74/10/06	13	00	0.384	1.600	0.025	0.005K	0.005
74/11/03	13	30	0.208	1.600	0.085	0.015	
75/01/05	14	00	0.156	0.300	0.017	0.008	0.010K
75/02/09	14	30	0.288	0.200	0.096	0.008K	0.010K
75/03/02	11	30	0.208	0.400	0.012	0.008K	0.010K
75/04/06	13	00	0.155	0.800	0.271	0.010	0.010
75/04/19	14	30	0.075	0.450	0.035	0.020	0.020
75/05/03	11	30	0.070	0.950	0.035	0.005	0.010K
75/05/18	16	30	0.100	0.550	0.025	0.005	0.010K
75/06/08	13	30	0.160	0.600	0.010	0.005	0.010K
75/06/26	10	00			0.015	0.005	

STORET RETRIEVAL DATE 75/11/28
NATL EUTROPHICATION SURVEY
EPA- LAS VEGAS

0515J1
36 25 37.0 093 37 20.0
KINGS RIVER
05 7.5 GRANOVIEW
T/TABLE ROCK RES
BRDG HWY 143 3 MI N HWY 62 JCT
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
74/09/14	15	15	0.260	0.300	0.020	0.035	0.050
74/11/03	09	15	0.368	2.500	0.065	0.060	
74/12/08	10	00	0.304	1.200	0.020	0.010	0.020
75/01/05	10	20	0.316	0.650	0.081	0.012	0.015
75/02/09	09	30	0.448	1.000	0.024	0.016	0.016
75/03/02	10	15	0.504	1.200	0.031	0.008	0.020
75/04/07	16	00	0.360	0.750	0.035		0.020
75/04/19	09	25	0.175	0.800	0.150	0.025	0.040
75/05/04	10	30	0.095	2.700	0.045	0.015	0.030
75/05/18	10	45	0.135	0.750	0.025	0.020	0.035
75/06/08	13	15	0.230	1.250	0.035	0.065	0.100
75/07/07	11	30	0.060	0.500	0.037	0.052	0.102
75/08/17	09	55	0.245	0.600	0.045	0.270	0.355

-34-

STORET RETRIEVAL DATE 75/11/28
NATL EUTROPHICATION SURVEY
EPA- LAS VEGAS

0515K1
36 24 27.0 093 18 22.0
LONG CREEK
05 7.5 DENVER
T/TABLE ROCK RES
2NDRY RD BRDG 1.75 MI SE HWY 311 JCT
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
74/09/14	16	20	0.940	0.300	0.020	0.005	0.040
74/10/06	12	15	1.160	0.300	0.017	0.005K	0.010
74/11/03	11	30	0.820	2.000	0.110	0.030	
74/12/08	11	30	0.830	0.500	0.020	0.015	0.040
75/01/05	11	40	0.995	0.850	0.038	0.016	0.016
75/02/09	10	45	1.150	0.600	0.024	0.016	0.016
75/03/02	11	35	1.150	0.600	0.025	0.016	0.020
75/04/07	14	35	0.730	1.500	0.130	0.015	0.040
75/04/19	11	50	0.650	0.450	0.160	0.010	0.040
75/05/04	12	30	0.410	0.750	0.010	0.005	0.010
75/05/18	14	30	0.175	1.500	0.035	0.010	0.020
			0.300	1.750	0.035	0.005	0.010
75/07/07	12	45	0.030		0.035	0.005	
75/08/17	11	10	0.010	1.125	0.045	0.005	0.040

STORET RETRIEVAL DATE 75/11/28
NATL EUTROPHICATION SURVEY
EPA- LAS VEGAS

0515L1
36 27 40.0 093 21 25.0
YOCUM CREEK
05 7.5 DENVER
T/TABLE ROCK RES
AT CONRETE FORD LT DTY RD 4 M NW DENVER
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
74/09/14	16 30		1.760	0.100	0.010	0.015	0.020
74/10/06	11 30		1.760	1.200	0.030	0.020	0.020
74/11/03	10 30		0.040	0.900	0.045	0.040	
74/12/08	11 00		1.520	0.900	0.045	0.015	0.015
75/01/05	11 10		1.515	0.900		0.010	0.015
75/02/09	10 25		1.720	0.700	0.024	0.016	0.016
75/03/02	11 20		1.820	0.300	0.015	0.019	0.020
75/04/07	12 25		1.650	0.900	0.035	0.020	0.020
75/04/19	13 30		1.570	1.050	0.020	0.015	0.015
75/05/04	11 15		1.300	1.700	0.025	0.010	0.010
75/05/18	10 31		1.500	1.950	0.035	0.015	0.015
75/07/07	12 00				0.020	0.015	
75/08/17	10 35		1.350	0.312	0.020	0.020	0.030

STORET RETRIEVAL DATE 75/11/28
NATL EUTROPHICATION SURVEY
EPA- LAS VEGAS

0515WA AS0515WA P100000*
37 08 45.0 093 22 30.0
SPRINGFIELD SW
29 7.5 SPRINGFIELD
T/GREER'S FERRY RES.
WILSON CREEK
11EPALES 2141204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P	50051 FLOW RATE INST MGD	50053 CONDUIT FLOW-MGD MONTHLY
74/11/30								18.400	35.300
74/12/30 CP(T)-	24 00							43.700	22.100
74/12/31	24 00								
75/01/30 CP(T)-	24 00		0.960	1.500	0.320	3.120	3.300	67.500	25.000
75/01/31	24 00								
75/02/27 CP(T)-	24 00		4.640	4.000	0.380	2.800	3.200	55.200	36.100
75/02/28	24 00								
75/03/30 CP(T)-	24 00		1.760	14.000	0.080	1.500	4.200	39.100	49.200
75/03/31	24 00								
75/04/29 CP(T)-	24 00		0.050	12.000	0.250	4.500	5.800	31.600	26.900
75/04/30	24 00								
75/05/13 CP(T)-	24 00		0.050	21.000	3.400	3.300	8.100	19.400	26.900
75/05/14	24 00								
75/05/30 CP(T)-	24 00		0.050	14.000	2.100	6.300	6.900	19.200	23.400
75/05/31	24 00								
75/06/15 CP(T)-	24 00		0.100	16.000	3.800	2.400	7.800	24.800	23.400
75/06/16	24 00								
75/06/29 CP(T)-	24 00		0.200	18.500	3.500	4.800	6.600	20.800	26.200
75/06/30	24 00								
75/07/19 CP(T)-	24 00		0.025	15.500	4.700	8.200	9.100	13.300	26.200
75/07/20	24 00								
75/07/30 CP(T)-	24 00		0.050	25.000	6.600	6.000	7.400	15.700	16.100
75/07/31	24 00								
75/08/14 CP(T)-	24 00							15.400	16.100
75/08/15	24 00								

STORET RETRIEVAL DATE 75/11/28
NATL EUTROPHICATION SURVEY
EPA- LAS VEGAS

0515XA TF0515XA P001700
36 25 00.0 093 44 00.0
EUREKA SPRINGS
05 CARROL CO MAP
T/TABLEROCK RESERVOIR
LEATHERWOOD CREEK
11EPALES 2141204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P	50051 FLOW RATE INST MGD	50053 CONDUIT FLOW-MGD MONTHLY
74/10/31	07	30							
CP(T)-			4.000	2.200	0.110	1.400	1.450	0.560	0.290
74/10/31	16	30							
75/01/25			4.480	7.000	0.072	2.200	3.500	0.393	0.393
75/02/17			4.160	6.100	0.150	1.680	2.200	0.040	0.050
75/03/17	08	00							
CP(T)-			4.000	1.000	0.080K	1.280	1.800	0.331	0.300
75/03/17	17	00							
75/04/15	15	00	0.400	4.300	0.080K		3.500	0.275	0.275
75/04/29	09	00							
CP(T)-			0.050	9.400	0.088	1.850	3.500	0.235	0.235
75/04/29	16	00							
75/05/08	14	00	4.900	1.900	0.150	1.650	1.900	0.078	0.078
75/05/30	13	30	5.600	2.400	0.100	2.500	2.400	0.012	0.085
75/07/15	10	00	6.000	15.000	3.850	4.350	5.250	0.332	0.332
75/08/07	08	30							
CP(T)-			6.700	11.500	0.355	5.350	6.500	0.446	0.332
75/08/07	15	30							

-041-

STORET RETRIEVAL DATE 75/11/28
NATL EUTROPHICATION SURVEY
EPA- LAS VEGAS

0515YA TF0515YA P001300*
36 18 30.0 093 25 55.0
GREEN FOREST
05 CARROL CO MAP
T/TABLEROCK RESERVOIR
DRY CREEK
11EPALES 2141204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P	50051 FLOW RATE INST MGD	50053 CONDUIT FLOW-MGD MONTHLY
74/11/01	09 00								
CP(T)-			3.520	11.500	0.790	1.930	2.400	1.000	0.750
74/11/01	14 00								
75/01/28	08 00								
CP(T)-			0.080	8.400	4.685	2.400	4.880	0.880	1.000
75/01/28	11 00								
75/02/28	10 30								
CP(T)-			1.600	11.000	0.690	1.760	2.200	1.200	0.603
75/02/28	14 30								
75/04/16	08 00								
CP(T)-			10.500	13.500	1.950	3.800	4.500	0.750	1.000
75/04/16	14 00								
75/04/30	08 30								
CP(T)-			8.000	5.900	0.640	3.800	4.300	1.100	0.866
75/04/30	14 00								
75/05/15	08 00								
CP(T)-			2.500	16.500	4.400	3.400	3.600	1.020	0.970
75/05/15	14 00								
75/05/30	08 00								
CP(T)-			10.000	21.000	0.210	5.600	7.500	0.956	0.832
75/05/30	14 00								
75/06/16	11 00								
CP(T)-			11.500	4.400	0.050K	4.300	4.300	0.982	0.895
75/06/16	15 00								
75/06/30	08 30								
CP(T)-			16.000	6.700	0.270	4.500	4.700	0.900	1.200
75/06/30	14 00								
75/07/15	09 00								
CP(T)-			6.300	4.250	0.230	2.800	3.000	1.000	0.830
75/07/15	14 00								
75/07/30	09 00								
CP(T)-			7.800	6.800	0.081	2.400	2.700	0.800	0.840
75/07/30	14 00								
75/09/03	09 30								
CP(T)-			6.600	4.600	0.860	2.600	2.900	1.000	0.870
75/09/03	14 00								

-141-

STORET RETRIEVAL DATE 75/11/28
NATL EUTROPHICATION SURVEY
EPA- LAS VEGAS

0515ZA TF0515ZA P003000*
36 22 05.0 093 35 00.0
BERRYVILLE
05 CARROL CO MAP
T/TABLEROCK RESERVOIR
OSAGE CREEK TO KINGS RIVER
11EPALES 2141204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P	50051 FLOW RATE INST MGD	50053 CONDUIT FLOW-MGD MONTHLY
74/11/06	11 00								
CP(T)-			3.680	3.600	0.170	2.500	2.500	1.000	0.800
74/11/06	16 00								
75/01/09	11 00								
CP(T)-			3.360	15.000	0.530	4.300	4.300	1.300	1.110
75/01/09	16 00								
75/02/11	11 00								
CP(T)-			2.400	1.000K	1.280	4.500	4.500	1.000	1.040
75/02/11	16 00								
75/03/13	11 00								
CP(T)-			1.120	8.550	0.050K	2.080	2.850	2.000	1.500
75/03/13	15 00								
75/04/15	11 00								
CP(T)-			2.300	8.400	0.310	6.400	6.400	1.000	1.500
75/04/15	15 00								
75/05/02	11 00								
CP(T)-			5.000	6.800	0.140	5.400	5.900	1.300	1.250
75/05/02	15 00								
75/05/16	11 00								
CP(T)-			2.500	22.000	4.000	8.000	8.700	1.000	1.200
75/05/16	15 00								
75/06/02	11 00								
CP(T)-			4.700	8.500	0.200	11.000	11.000	1.200	1.060
75/06/02	15 00								
75/06/16	11 00								
CP(T)-			4.100	11.000	1.900	2.100	9.700	1.100	1.000
75/06/16	15 00								
75/07/01	11 00								
CP(T)-			5.800	8.600	0.275	7.500	7.700	0.900	1.030
75/07/01	15 00								
75/07/14	11 00								
CP(T)-			5.800	8.100	0.075	8.900	8.900	1.000	1.040
75/07/14	16 00								
75/07/31	11 00								
CP(T)-			5.400	23.000	7.150	10.500	11.000	1.050	0.900
75/07/31	15 00								

-143-

STORET RETRIEVAL DATE 77/02/24

2904A1
36 39 31.0 093 07 22.0 4
WHITE RIVER
29 7.5 FORSYTH
O/LAKE TANEYCOMO 10054
BANK SAMPLE BELOW OZARK BEACH DAM
11EPALES 04001004
0000 FEET DEPTH CLASS 00

/TYPE/AMBNT/STREAM

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
74/09/14	11 00		0.294	1.400	0.025	0.005K	0.030
74/10/05	14 00		0.336	1.000	0.045	0.005K	0.015
74/11/02	11 40		0.224	2.000	0.240	0.005K	0.010K
74/12/07	10 52		0.192	1.000	0.050	0.005	0.020
75/01/04	12 30		0.368	1.300	0.032	0.012	0.020
75/02/08	12 30		0.416	1.100	0.024	0.008	0.010
75/03/08	12 30		0.384	0.300	0.032	0.008K	0.020
75/04/05	13 00		0.390	1.450	0.155	0.005K	0.030
75/04/19	11 30		0.490	0.600	0.375	0.010	0.020
75/05/03	13 00		0.520	0.900	0.025	0.005	0.020
75/06/07	11 00		0.500	1.250	0.055	0.015	0.030
	11 30		0.520	0.450	0.025	0.005	0.010
75/07/13	11 30		0.390	0.850	0.030	0.005	0.030
75/08/04	11 30		0.370	1.000	0.055	0.005	0.050

K VALUE KNOWN TO BE
LESS THAN INDICATED

STORET RETRIEVAL DATE 77/02/24

2404A2
36 35 43.0 093 18 33.0 4
WHITE RIVER
29 7.5 TABLE ROCK D
T/LAKE TANEYCOMO 100591
BANK SAMPLE BELOW TABLE ROCK DAM
11EPALES 04001004
0000 FEET DEPTH CLASS 00

/TYPA/AMBNT/STREAM

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
74/09/14	14	12	0.450	0.900	0.020	0.015	0.025
74/10/25	13	30	0.432	1.700	0.050	0.015	0.025
74/11/02	12	30	0.304	0.500	0.060	0.020	0.020
74/12/07	10	45	0.224	1.700	0.055	0.010	0.020
75/01/04	11	00	0.408	1.500	0.032	0.012	0.020
75/02/08	11	46	0.416	0.500	0.008	0.008	0.010
75/03/08	12	38	0.416	1.000	0.032	0.008K	0.020
75/04/05	12	31	0.420	0.500	0.020	0.005K	0.020
75/04/19	12	27	0.525	0.300	0.040	0.010	0.020
75/05/03	12	35	0.610	0.050	0.015	0.010	0.020
75/05/17	13	15	0.700	0.450	0.025	0.015	0.020
75/06/07	12	30	0.840	0.750	0.020	0.020	0.020
75/07/13	12	25	0.780	0.750	0.020	0.015	0.020
75/08/09	13	05	0.810	0.700	0.040	0.015	0.040

K VALUE KNOWN TO BE
LESS THAN INDICATED

STORET RETRIEVAL DATE 77/02/24

290481
36 39 03.0 093 14 05.0 4
ROARK CREEK
29 7.5 BRANSON
T/LAKE TANEYCOMO 100591
BRDG ON LGHT DTY RD .5 MI NW OF BRANSON
11EPALES 04001004
0000 FEET DEPTH CLASS 00

/TYPA/AMBNT/STREAM

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
74/09/14	13 00		0.076	0.400	0.305	0.005K	0.010
74/10/05	14 10		0.072	0.900	0.030	0.005K	0.005K
74/11/02	13 15		0.168	0.200	0.010	0.005K	0.010K
74/12/07	11 35		0.272	1.400	0.015	0.005	0.010K
75/01/04	12 00		0.200	1.300	0.276	0.005K	0.010K
75/02/08	12 00		0.176	0.500	0.040	0.008K	0.010K
75/03/08	13 05		0.192	0.150	0.024	0.008K	0.010K
75/04/05	12 45		0.175	0.550	0.012	0.005K	0.010
75/04/19	13 10		0.070	0.275	0.015	0.005	0.010
75/05/03	13 17		0.040	0.250	0.010	0.005K	0.010
75/05/17	15 40		0.045	0.600	0.020	0.005K	0.010K
75/06/07	13 00		0.135	0.250	0.030	0.005	0.010K
75/07/13	13 00		0.220	0.650	0.015	0.005	0.010K
75/08/09	13 35		0.190	0.100	0.025	0.005K	0.020

K VALUE KNOWN TO BE
LESS THAN INDICATED

STORET RETRIEVAL DATE 77/02/24

2904C1
36 43 05.0 093 12 22.0 4
BULL CREEK
29 7.5 BRANSON
T/LAKE TANEYCOMO 100591
BRDG ON HWY F 5.6 MI N OF BRANSON
11EPALES 04001004
0000 FEET DEPTH CLASS 00

/TYPA/AMBNT/STREAM

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
74/09/14	11 30		0.550	0.500	0.010	0.005K	0.005K
74/10/05	13 20		0.448	0.700	0.095	0.005K	0.005K
74/11/02	10 30		0.672	0.400	0.020	0.005K	0.010K
74/12/07	11 45		0.520	0.950	0.010	0.005	0.010K
75/01/04	11 15		0.630	2.800	0.044	0.010	0.010
75/02/08	10 15		0.624	0.900	0.016	0.008K	0.010K
75/03/08	10 15		0.840	0.600	0.120	0.008K	0.010K
75/04/05	10 45		0.630	0.500	0.025	0.005K	0.010
75/04/19	10 15		0.430	0.500	0.015	0.010	0.010
75/05/03	10 30		0.420	0.750	0.065	0.005K	0.020
75/06/07	10 15		0.490	1.150	0.025	0.005K	0.010
75/07/13	10 30		0.145	0.850	0.015	0.005K	0.030
75/08/09	11 00		0.110	1.000	0.125	0.005	0.030

K VALUE KNOWN TO BE
LESS THAN INDICATED

STORET RETRIEVAL DATE 77/02/24

290401
36 37 27.0 093 12 55.0 4
TURKEY CREEK
29 7.5 HOLLISTER
T/LAKE TANEYCOMO 100591
LT DTY RD BRDG IN TOWN OF HOLLISTER
11EPALES 0400104
0000 FEET DEPTH CLASS 00

/TYPA/AMBNT/STREAM

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
74/09/14	13 30		0.200	0.300	0.005	0.005K	0.005K
74/10/05	13 00		0.072	1.400	0.045	0.005K	0.005K
74/11/02	13 00		0.200	0.800	0.110	0.005K	0.005K
74/12/07	10 10		0.368	0.800	0.030	0.005	0.010K
75/01/04	10 15		0.280	1.600	0.100	0.005K	0.010K
75/02/08	11 31		0.320	0.400	0.024	0.008K	0.010K
75/03/08	12 04		0.272	0.150	0.024	0.008K	0.010K
75/04/05	12 01		0.220	1.400	0.015	0.005	0.010
75/04/19	12 01		0.160	0.250	0.050	0.005	0.020
75/05/03	12 03		0.045	0.625	0.180	0.005K	0.030
75/06/07	11 40		0.150	0.825	0.090	0.005	0.020
75/07/13	11 50		0.060	0.300	0.085	0.005	0.010K
75/08/09	12 30		0.065	0.850	0.375	0.070	0.110

K VALUE KNOWN TO BE
LESS THAN INDICATED

STORET RETRIEVAL DATE 77/02/24

2904E1
36 40 20.0 093 12 45.0 4
BEE CREEK
29 7.5 BRANSON
T/LAKE TANEYCOMO 100591
BNK 50 FT N OF SEC RD .5 M E HWY F JCT
11EPALES 04001004
0000 FEET DEPTH CLASS 00

/TYPA/AMBNT/STREAM

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
74/09/14	11 55		0.040	0.400	0.005K	0.005K	0.005K
74/10/05	13 00		0.056	2.300	0.025	0.005K	0.005K
74/11/02	10 00		0.048	1.400	0.025	0.005K	0.010K
74/12/07	12 50		0.088	1.100	0.015	0.005	0.010K
75/01/04	11 00		0.056	0.800	0.112	0.005	0.010K
75/02/08	10 00		0.056	0.600	0.032	0.008K	0.010K
75/03/08	10 00		0.032	0.300	0.024	0.006	0.010K
75/04/05	10 30		0.025	0.750	0.045	0.005K	0.020
75/04/19	10 00		0.020	0.800	0.170	0.005	0.010
75/05/03	10 00		0.005	0.350	0.035	0.005K	0.020

K VALUE KNOWN TO BE
LESS THAN INDICATED

STORET RETRIEVAL DATE 77/02/24

2904DA TF2904DA P020000
36 39 00.0 093 13 15.0 4
BRANSON
29213 7.5 BRANSON
D/LAKE TANEYCOMO 100591

/AMBNT/STREAM

11EPALES 00001004
0000 FEET DEPTH CLASS 00

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P	50051 FLOW RATE INST MGD	50053 CONDUIT FLOW-MGD MONTHLY
74/11/22 CP(T)-	08 00		0.560	11.000	0.240	6.100	6.800	0.640	0.800
74/11/22	17 00								
74/12/24	10 00		0.400	15.000	0.770	5.700	6.300	0.740	0.700
75/03/04	14 00		0.080	18.000	0.080		7.900	0.390	0.440
75/04/17	10 00		0.050	15.000	0.470	4.900	6.000	0.350	0.300
75/06/25			0.200	20.000		6.500	7.400	0.550	0.450
75/07/25	10 50		7.350	2.100	0.110	7.450	7.700	0.290	0.300
75/08/29	14 00		4.700	10.500		6.200	7.100	0.550	0.580
75/09/30	10 05		2.400	9.700	0.093	6.400	7.200	0.312	0.400
75/10/27	13 30		0.050	10.000	0.270	9.200	9.900	0.385	0.450
75/12/01	10 00		0.025	13.000	0.250	9.150	9.400	0.576	0.500
75/12/29	15 30		0.050	17.000	1.700	8.100	10.000	0.350	0.325
76/01/28	15 45		0.150	17.000	0.595	7.700	10.500	0.412	0.400
76/02/24	15 00		0.125	19.000	0.800	7.200	10.500	0.360	0.375

STORET RETRIEVAL DATE 75/11/28
NATL EUTROPHICATION SURVEY
EPA- LAS VEGAS

0504A1
36 21 52.0 092 34 30.0
WHITE RIVER
05 7.5 COTTER
O/BULL SHOALS RES
FROM SPILLWAY AT BULL SHOALS DAM
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
74/06/23	10	25	0.370	0.100K	0.005	0.005	0.010
74/07/20	10	00	0.384	0.800	0.040	0.005K	0.005K
74/08/17	09	45	0.450	0.300	0.005	0.010	0.010
74/09/07			0.504	0.100	0.005K	0.005K	0.010
74/10/12	10	15	0.490	0.100K	0.020	0.005K	0.010
74/12/22			0.144	0.400	0.057	0.005K	0.010
75/01/18			0.232	0.300	0.016	0.005	0.020
75/02/15			0.256	0.200	0.008	0.008	0.010K
75/03/08			0.256	0.300	0.009	0.008K	0.020
75/04/06			0.025	0.550	0.015	0.005K	0.020
75/04/19			0.280	0.350	0.010	0.005K	0.010
75/05/03			0.575	0.900	0.020	0.005	0.010K
75/05/04			0.590	0.700	0.025	0.005K	0.010K

— K VALUE KNOWN TO BE LESS THAN INDICATED —

-050-

STORET RETRIEVAL DATE 75/11/28
NATL EUTROPHICATION SURVEY
EPA- LAS VEGAS

050481
36 19 24.0 092 39 40.0
MOCCASIN CREEK
05 7.5 COTTER SW
T/BULL SHOALS RES
QUARRY MTN RD BRDG 4 MI W OF HWY 202 JCT
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
74/06/23	09 40		0.044	0.100K	0.005	0.005K	0.010
74/07/20	09 30		0.032	0.500	0.020	0.005K	0.005K
74/08/17	12 10		0.108	0.100	0.005K	0.012	0.015
74/12/22			0.096	0.300	0.135	0.005	0.010K
75/01/18			0.088	0.300	0.016	0.005K	0.020
75/02/15			0.032	0.100K	0.008K	0.008K	0.010K
75/03/08			0.031	0.050K	0.016	0.005	0.015
75/03/15			0.030	0.150	0.005	0.010	0.010
75/04/06			0.010	0.550	0.040	0.005	0.010
75/04/19			0.010	0.050K	0.005K	0.005K	0.010K
75/05/03				0.700			0.010K

— K VALUE KNOWN TO BE LESS THAN INDICATED —

STORET RETRIEVAL DATE 75/11/28
NATL EUTROPHICATION SURVEY
EPA- LAS VEGAS

0504C1
36 20 14.0 092 40 28.0
JIMMY CREEK
05 7.5 COTTER SW
T/BULL SHOALS RES
QUARRY MTN RD BRDG 6.5 MI NW HWY 202 JCT
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
74/06/23	09	20	0.012	0.100K	0.005	0.005K	0.005K
74/07/20	09	15	0.016	0.400	0.020	0.005K	0.005K
74/08/17	08	30	0.016	0.400	0.005	0.005	0.010
74/09/07			0.200	0.300	0.090	0.005K	0.005
74/10/12			0.160	0.100	0.020	0.005K	0.010K
74/12/22			0.024	0.100	0.025	0.005K	0.010K
75/01/18			0.040	0.100K	0.016	0.010K	0.010
75/02/15			0.016	0.100K	0.008K	0.008K	0.010K
75/03/08			0.032	0.050K	0.016	0.008K	0.010
75/04/06			0.020	0.100		0.002	0.010K
75/04/19			0.015	0.050	0.005K	0.005K	0.010K
75/05/03			0.575	0.600	0.015	0.005	0.010K

— K VALUE KNOWN TO BE LESS THAN INDICATED —

STORET RETRIEVAL DATE 75/11/28
NATL EUTROPHICATION SURVEY
EPA- LAS VEGAS

050401
36 24 00.0 092 52 42.0
EAST SUGAR LOAF CREEK
05 7.5 DIAMOND CITY
T/BULL SHOALS RES
BNK 100 YDS W OF HWY 14 2.2 M SE LEAD HL
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
74/06/23	08	50	0.160	0.100K	0.005K	0.005K	0.005K
74/07/20	08	45	0.136	0.200	0.010	0.005K	0.005K
74/08/17	08	05	0.228	0.100K	0.005K	0.005	0.010
74/09/07			0.022	0.200	0.005K	0.005K	0.005K
74/10/12			0.168	0.100K	0.025	0.005K	0.010
74/11/24			0.490	0.200	0.016	0.016	0.016
74/12/21			0.504	0.100	0.010	0.005	0.010
75/01/19			0.400	0.100K	0.008K	0.005K	0.010K
75/02/16			0.480	0.300	0.016	0.008K	0.010K
75/03/08			0.376	0.050	0.008	0.008K	0.020
75/03/16			0.408	0.350	0.015	0.004	0.010
75/04/05			0.230	0.100	0.010	0.005K	0.010K
75/04/20			0.230	0.050	0.010		0.010K
75/05/04			0.330	0.200	0.020	0.006	0.010K

— K VALUE KNOWN TO BE LESS THAN INDICATED —

STORET RETRIEVAL DATE 75/11/28
NATL EUTROPHICATION SURVEY
EPA- LAS VEGAS

0504E1
36 25 00.0 092 57 00.0
W SUGAR LOAF CREEK
05 7.5 DIAMOND CITY
T/BULL SHOALS RES
CLVRT AT SEC RD XING 2 MI E OF LEAD HILL
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
74/06/23	09 45		0.144	0.100K	0.005K	0.005K	0.005K
74/07/20	09 00		0.228	0.100	0.010	0.005K	0.005K
74/08/17	08 30		0.152	0.100K	0.010	0.010	0.010
74/09/07			0.012	0.300	0.005	0.005K	0.010
74/10/12			0.248	0.100	0.100	0.005K	0.010
74/11/24			0.504	0.100K	0.008	0.008K	0.010K
74/12/21			0.504	0.100	0.007	0.005K	0.010K
75/01/19			0.320	0.100	0.008K		0.010K
75/02/16			0.352	0.500	0.032	0.008K	0.010K
75/03/08			0.440	0.350	0.016	0.008K	0.020
75/03/16			0.306	0.400	0.009	0.005K	0.010K
75/04/05			0.200	0.500	0.020	0.005K	0.010
75/04/20			0.200	0.600	0.175	0.005K	0.010K
75/05/04			0.340	0.900	0.030	0.005K	0.010K

— K VALUE KNOWN TO BE LESS THAN INDICATED —

STORET RETRIEVAL DATE 75/11/28
NATL EUTROPHICATION SURVEY
EPA- LAS VEGAS

0504F1
32 26 59.0 093 04 30.0
BEAR CREEK
05 7.5 OMAHA NE
T/BULL SHOALS RES
HWY 14 BRDG 3.5 MI NW OF HWY 281 JCT
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
74/06/23	10	15	0.160	0.100K	0.005K	0.005K	0.005K
74/07/20	09	30	0.176	0.300	0.017	0.005	0.005
74/08/17	08	45	0.720	0.200	0.005	0.005	0.020
74/09/07			0.224	0.100	0.005K	0.005K	0.010
74/10/12			0.152	0.100K	0.025	0.005K	0.005K
74/11/24			0.528	0.100K	0.032	0.008K	0.010K
74/12/21			0.504	0.100	0.005K	0.005K	0.020
75/01/19			0.384	0.500	0.016	0.005K	0.010K
75/02/16			0.490	0.400	0.072	0.008K	0.010K
75/03/08			0.296	0.200	0.024	0.008K	0.068
75/03/16			0.462	0.200	0.005K	0.005K	0.010K
75/04/05			0.290	0.250	0.017	0.005K	0.010K
75/04/20			0.290	0.250	0.040	0.005	0.010K
75/05/04			0.120	0.050K	0.020	0.005K	0.015

— K VALUE KNOWN TO BE LESS THAN INDICATED —

STORET RETRIEVAL DATE 75/11/28
NATL EUTROPHICATION SURVEY
EPA- LAS VEGAS

0504G1
36 31 20.0 093 05 20.0
BEE CREEK
05 7.5 MINCY
T/BULL SHOALS RES
BANK AT FORD .1 MI W OF BEE CRK CEMETERY
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
74/06/23	11	00	0.010	0.100K	0.005K	0.005K	0.005K
74/07/20	10	00	0.044	0.400	0.015	0.005K	0.005K
74/08/17	09	30	0.068	0.200	0.005K	0.005K	0.015
74/09/07			0.012	0.200	0.005K	0.005K	0.010
74/10/12			0.490	0.100K	0.015	0.005K	0.005
74/11/24			0.016	0.100K	0.008	0.008K	0.010K
74/12/21			0.016	0.100K	0.005K	0.005K	0.010K
75/01/19			0.080	0.100K	0.008	0.005K	0.010K
75/02/16			0.029	0.100	0.040	0.008K	0.010K
75/03/08			0.048	0.100	0.016	0.008K	0.010
75/03/16			0.045	0.150	0.005K	0.005K	0.010K
75/04/05			0.290	0.175	0.010	0.005K	0.010K
75/05/04			0.120	0.100	0.015	0.005K	0.010K

— K VALUE KNOWN TO BE LESS THAN INDICATED —

-156-

STORET RETRIEVAL DATE 75/11/28
NATL EUTROPHICATION SURVEY
EPA- LAS VEGAS

0504H1
36 39 33.0 093 07 25.0
LAKE TANEYCOMO
05 7.5 FORSYTH
T/BULL SHOALS RES
OZARK BEACH DAM SPILLWAY OFF HWY Y
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
74/06/23	12	10	0.540	0.200	0.010	0.005K	0.005K
74/07/20	16	00	1.200	0.100K	0.035	0.012	0.021
74/08/17	11	30	2.300	0.100	0.010	0.015	0.020
74/09/07			0.300	0.200	0.020	0.015	0.020
74/10/12			0.504	0.100K	0.015	0.005K	0.005K
74/11/24			0.128	0.300	0.064	0.008K	0.030
74/12/21			0.128	0.500	0.065	0.010	0.020
75/01/19			0.336	0.500	0.016	0.010	0.010
75/02/16			0.400	0.300	0.040	0.008	0.020
75/03/08			0.376	0.300	0.016	0.008K	0.030
75/03/16			0.395	0.300	0.005	0.007	0.024
75/04/05			0.410	0.350	0.010	0.005K	0.010K
75/04/20			0.410	0.250	0.030	0.010	0.020
75/05/04			0.115	0.050K	0.005K	0.005K	0.010K

— K VALUE KNOWN TO BE LESS THAN INDICATED —

STORET RETRIEVAL DATE 75/11/23
NATL EUTROPHICATION SURVEY
EPA- LAS VEGAS

0504J1
36 43 10.0 093 06 00.0
SWAN CREEK
05 7.5 FORSYTH
T/BULL SHOALS RES
BNK AT 1ST TRNOUT N OF FORK IN CASEY RD
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
74/06/23	13	00	0.184	0.100K	0.015	0.005K	0.005K
74/07/20	14	30	0.044	0.500	0.025	0.005K	0.005K
74/08/17	12	10	0.040	1.600	0.105	0.005	0.005
74/09/07			0.192	0.100K	0.005K	0.005K	0.005
74/10/12			0.072	0.300	0.020	0.005K	0.010
74/11/24			0.400	0.250	0.056	0.007	0.010K
75/01/19			0.216	0.100K	0.008K	0.005K	0.010K
75/02/16			0.024	0.200	0.016	0.008K	0.010K
75/05/04			0.115	0.350	0.005	0.013	0.013

— K VALUE KNOWN TO BE LESS THAN INDICATED —

STORET RETRIEVAL DATE 75/11/28
NATL EUTROPHICATION SURVEY
EPA- LAS VEGAS

0504K1
36 39 12.0 093 57 37.0
CANE CREEK
05 7.5 HILDA
T/BULL SHOALS RES
2NDRY RD BRDG 1.5 MI NE US 160 JCT
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
74/06/23	12	30	0.120	0.100K	0.005K	0.005K	0.005K
74/07/20	12	30	0.088	0.100K	0.020	0.005K	0.005K
74/08/17	13	45	0.690	0.300	0.020	0.020	0.030
74/09/07			0.024	0.600	0.035	0.005K	0.025
74/10/12			0.248	0.100	0.025	0.005K	0.010
74/11/24			0.970	0.400	0.032	0.016	0.016
74/12/21			0.980	0.150	0.015	0.010	0.010
75/01/19			0.384	0.400	0.016	0.005K	0.010K
75/02/16			0.384	0.100K	0.008K	0.008K	0.010K
75/03/09			0.376	0.200	0.032	0.008K	0.010
75/03/16			0.395	0.400	0.005	0.005K	0.010K
75/04/05			0.400	0.850	0.020	0.005K	0.010K
75/04/20			0.420	0.300	0.015	0.005K	0.010
75/05/04			0.170	0.250	0.060	0.005K	0.010K

— K VALUE KNOWN TO BE LESS THAN INDICATED —

STORET RETRIEVAL DATE 75/11/28
NATL EUTROPHICATION SURVEY
EPA- LAS VEGAS

0504L1
36 42 12.0 093 58 20.0
BEAVER CREEK
05 7.5 HILDA
T/BULL SHOALS RES
BANK 300 OFF 2NDRY RD 4 MI S HWY FF
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
74/06/23	11	00	0.310	0.100K	0.020	0.005K	0.005
74/07/20	13	30	0.192	0.200	0.020	0.005K	0.005
74/08/17	13	25	1.340	0.300	0.015	0.015	0.025
74/09/07			0.352	0.200	0.005K	0.005K	0.005
74/10/12			0.064	0.200	0.045	0.005K	0.010
74/11/24			0.384	0.400	0.040	0.005	0.010K
74/12/21			0.384	0.100K	0.005K	0.005K	0.010K
75/01/19			0.216	0.100K	0.008K	0.005K	0.010K
75/02/16			0.064	0.100K	0.016	0.008K	0.010K
75/03/16			0.568	0.250	0.010	0.005K	0.010K
75/04/05			0.960	0.100	0.015	0.015	0.015
75/05/04			0.165	0.100	0.045	0.005	0.010K

— K VALUE KNOWN TO BE LESS THAN INDICATED —

071

STORET RETRIEVAL DATE 75/11/28
NATL EUTROPHICATION SURVEY
EPA- LAS VEGAS

050441
36 35 00.0 092 46 40.0
BIG CREEK
05 7.5 PROTEM
T/BULL SHOALS RES
CULVERT DWNSTRM OF NEW BRDG ON HWY 160
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
74/06/23	12	30	0.320	0.600	0.015	0.005K	0.005K
74/09/07			0.024	1.000	0.060	0.005K	0.015
75/01/18			0.240	0.100K	0.008	0.010	0.040
75/02/15			0.200	0.100	0.016	0.008K	0.010K
75/03/08			0.328	0.350	0.012	0.005	0.010K
75/03/15			0.333	0.150	0.010	0.010	0.010
75/04/06			0.010	0.060	0.015	0.005K	0.020
75/05/03			0.330	0.550	0.035	0.005K	0.010K

— K VALUE KNOWN TO BE LESS THAN INDICATED —

STORET RETRIEVAL DATE 75/11/28
NATL EUTROPHICATION SURVEY
EPA- LAS VEGAS

0504N1
36 32 32.0 092 52 26.0
SHOALS CREEK
05 7.5 PROTEM
T/BULL SHOALS RES
2NDRY RD BRDG 1.5 MI NW OF PROTEM
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
74/06/23	13	15	0.480	0.100K	0.010	0.005K	0.005K
74/07/20	13	50	0.024	0.500	0.025	0.005K	0.010
74/10/12			0.160	0.100K	0.045	0.015	0.015

K VALUE KNOWN TO BE LESS THAN INDICATED

STORET RETRIEVAL DATE 75/11/28
NATL EUTROPHICATION SURVEY
EPA- LAS VEGAS

050401
36 36 30.0 092 33 30.0
GULLEY SPRING CREEK
05 7.5 ISABELLA
T/BULL SHOALS RES
2NDRY RD BRDG 1.5 MI S HWY W JCT
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
74/06/23	11 45		0.036	0.500	0.010	0.005K	0.005K
74/07/20	10 30		0.044	0.100	0.015	0.005K	0.005K
74/10/12			0.490	0.100K	0.015	0.005K	0.005K
74/11/24			0.216	1.000	0.032	0.005K	0.010K
74/12/22			0.208	0.100K	0.025	0.005K	0.010K
75/01/18			0.400	0.100K	0.008K	0.005K	0.030
75/02/15			0.192	0.100K	0.008K	0.008K	0.010K
75/03/08			0.168	0.750	0.040	0.008K	0.020
75/03/15			0.166	0.100	0.009	0.005	0.010K
75/04/06			0.135	0.050K	0.015	0.005K	0.010K
75/04/19			0.160	0.050K	0.005K	0.005K	0.010K
75/05/03			0.580	0.100	0.015	0.005K	0.010K

— K VALUE KNOWN TO BE LESS THAN INDICATED —

STORET RETRIEVAL DATE 75/11/28
NATL EUTROPHICATION SURVEY
EPA- LAS VEGAS

0504R1
36 38 04.0 092 36 12.0
BARREN FORK
05 7.5 WILLHOIT
T/BULL SHOALS RES
2NDRY RD BRDG 4 MI NW HWY 160 JCT
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
74/06/23	13	00	0.108	0.100K	0.005	0.005K	0.005K
74/07/20	12	00	0.192	0.100K	0.020	0.005K	0.005K
74/09/07			0.012	1.000	0.007	0.005K	0.010
74/10/12			0.152	0.100K	0.020	0.005K	0.005K
74/11/24			0.208	0.300	0.024	0.005K	0.010K
74/12/23			0.216	0.125	0.020	0.005K	0.010K
75/01/18			0.400	0.100	0.008K	0.005K	0.020
75/02/15			0.200	0.100K	0.008	0.008K	0.010K
75/03/08			0.120	0.550	0.018	0.008K	0.020
75/03/15			0.120	0.600	0.018	0.010	0.010
75/04/06			0.035	0.100	0.030	0.005	0.010K
75/04/19			0.050	0.050K	0.005K	0.005K	0.010K
75/05/03			0.080	0.600	0.035	0.005K	0.010K

— K VALUE KNOWN TO BE LESS THAN INDICATED —

-491-

STORET RETRIEVAL DATE 75/11/28
NATL EUTROPHICATION SURVEY
EPA- LAS VEGAS

0504T1
36 40 32.0 092 37 57.0
TURKEY CREEK
05 7.5 THORNFIELD
T/BULL SHOALS RES
2NDRY RD BRDG 3 MI SE HWY D JCT
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
74/06/23	14	10	0.390	0.100K	0.010	0.005K	0.005K
74/07/20	14	10	0.276	0.100K	0.025	0.005K	0.005K
74/08/17	12	30	0.300	0.300	0.015	0.015	0.015
74/09/07			0.224	0.400	0.005K	0.005K	0.005
74/10/12			0.248	0.200	0.025	0.005	0.015
74/11/24			0.504	1.100	0.032	0.005K	0.010K
74/12/22			0.520	0.500	0.020	0.005K	0.010K
75/01/18			0.248	0.100	0.008K	0.005K	0.025
75/02/15			0.400	0.100	0.008	0.008K	0.010K
75/03/08			0.120	0.100	0.008	0.008K	0.030
75/03/15			0.129	0.500	0.015	0.010	0.010
75/04/06			0.060	0.100	0.020	0.005K	0.010K
75/04/19			0.375	0.050K	0.005K	0.005K	0.010K
75/05/03			0.090	2.950	0.050	0.005	0.010K

— K VALUE KNOWN TO BE LESS THAN INDICATED —

STORET RETRIEVAL DATE 75/11/28
NATL EUTROPHICATION SURVEY
EPA- LAS VEGAS

050441
36 40 32.0 092 38 44.0
N FORK WHITE RIVER
05 7.5 THORNFIELD
T/BULL SHOALS RES
2NDRY RD BRDG 1.5 MI E HWY D JCT
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
74/06/23			0.264	0.100K	0.005K	0.005K	0.045
74/07/20	13 45		0.300	0.100K	0.020	0.005K	0.005K
74/08/17	12 35		0.112	0.100K	0.010	0.005	0.005
74/09/07			0.352	0.300	0.005K	0.005K	0.005K
74/10/12	11 00		0.490	0.100K	0.015	0.005K	0.005K
74/11/24			0.184	0.400	0.040	0.005K	0.010K
74/12/22			0.184	0.200	0.020	0.005K	0.010K
75/01/18			0.352	0.100K	0.016	0.005K	
75/02/15			0.256	0.200	0.008K	0.008K	0.010K
75/03/08			0.320	0.400	0.024	0.008	0.020
75/03/15			0.333	0.250	0.025	0.005	0.010K
75/04/06			0.030	0.150	0.025	0.005K	0.010K
75/04/19				0.100	0.005K	0.005	0.010K
75/05/03			0.090	1.950	0.035	0.005K	0.010K
75/05/07			0.085	2.300	0.035	0.005K	0.010

— K VALUE KNOWN TO BE LESS THAN INDICATED —

-11-

STORET RETRIEVAL DATE 75/11/28
NATL EUTROPHICATION SURVEY
EPA- LAS VEGAS

0504XI
36 38 10.0 092 41 15.0
POND FORK
05 7.5 THORNFIELD
T/BULL SHOALS RES
2NDRY RD BRDG 3.5 MI SE HWY 95 JCT
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
74/06/23	13 40		0.300	0.200	0.005	0.005K	0.005K
74/07/20	11 00		0.240	0.100	0.020	0.005K	0.005K
	11 50		0.060	0.100K	0.010	0.005K	0.005K
74/08/17	12 50		0.160	0.100	0.005K	0.005K	0.005
74/09/07			0.370	0.600	0.070	0.005K	0.010
74/10/12			0.064	0.200	0.015	0.005K	0.010
74/11/24			0.312	0.100K	0.016	0.005K	0.010K
74/12/22			0.432	2.600	0.080	0.005K	0.010K
75/01/18			0.368	0.300	0.032	0.005	0.030
75/02/15				0.100K	0.016	0.008K	0.010K
75/03/08			0.328	0.400	0.024	0.008K	0.020
75/03/15			0.338	0.450	0.025	0.005K	0.010K
75/04/06			0.005	0.050K	0.010	0.005K	0.010K
75/04/19			0.375	0.100	0.005	0.005K	0.010K
75/05/03			0.090	1.900	0.030	0.005	0.010K

— K VALUE KNOWN TO BE LESS THAN INDICATED —

STORET RETRIEVAL DATE 75/11/28
NATL EUTROPHICATION SURVEY
EPA- LAS VEGAS

0504Y1
36 48 20.0 093 04 27.0
BLUE CREEK
05 7.5 GARRISON MO
T/BULL SHOALS RES
BRDG ON HWY AA 1 MI NW SWAN
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
74/06/23	10 30		0.018	0.100K	0.005K	0.005K	0.005K
74/08/17	12 45		0.116	0.300	0.035	0.005	0.010
74/09/07			0.384	0.100K	0.005K	0.005K	0.005
74/10/12			0.056	0.200	0.020	0.011	0.016
74/11/24			0.940	0.200	0.016	0.010	0.010
74/12/21			1.120	0.100K	0.020	0.015	0.020
75/01/19			0.960	0.100K	0.008	0.010	0.010
75/02/16			0.064	0.100K	0.008K	0.008K	0.010K
75/03/08			0.448	0.300	0.016	0.008K	0.020
75/03/16			0.444	0.300	0.010	0.005K	0.010K
75/04/05			0.970	0.100	0.015	0.015	0.015
75/04/20			0.950	0.750	0.055	0.009	0.010
75/05/04			0.115	0.050K	0.010	0.005K	0.010K

— K VALUE KNOWN TO BE LESS THAN INDICATED —

STORET RETRIEVAL DATE 75/11/28
NATL EUTROPHICATION SURVEY
EPA- LAS VEGAS

050421
36 24 00.0 092 56 25.0
DESHIELDS CREEK
05 7.5 DIAMOND CITY
T/BULL SHOALS RESERVOIR
CULVERT/BRDG 0.7 MI E OF SOUTH LEAD HILL
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
74/06/23	09	05	0.350	0.200	0.005K	0.005K	0.020
74/07/20	08	30	0.250	0.200	0.025	0.005K	0.005K
74/08/17	08	00	0.208	0.100K	0.010	0.005K	0.010
74/09/07			0.300	0.400	0.025	0.010	0.015
74/10/12			0.144	0.100K	0.020	0.005K	0.005K
74/11/24			0.490	0.100K	0.008K	0.005K	0.010K
74/12/21			0.504	0.100K	0.005K	0.005	0.010K
75/01/19			0.480	0.200	0.032		0.010K
75/02/16			0.480	0.200	0.016	0.008K	0.010K
75/03/08			0.400	0.150	0.008	0.008K	0.030
75/03/16			0.400	0.050K	0.020	0.005K	0.010K
75/04/05			0.345	1.150	0.050	0.005K	0.010
75/04/20			0.345	0.250	0.025	0.005K	0.010K
75/05/04			0.330	0.500	0.015	0.005	0.010K

— K VALUE KNOWN TO BE LESS THAN INDICATED —

APPENDIX F

PARAMETRIC RANKINGS OF LAKES SAMPLED BY NES IN 1974

STATES OF ARKANSAS AND MISSOURI

LAKE DATA TO BE USED IN RANKINGS - ARKANSAS

LAKE CODE	LAKE NAME	MEDIAN TOTAL P	MEDIAN INORG N	500- MEAN SEC	MEAN CHLORA	15- MIN DO	MEDIAN DISS ORTHO P
0501	BEAVER LAKE	0.022	0.330	415.667	3.921	14.900	0.006
0502	BLACKFISH LAKE	0.424	1.470	496.125	19.775	12.000	0.090
0503	BLUE MOUNTAIN LAKE	0.058	0.160	484.000	8.983	14.600	0.010
0504	BULL SHOALS LAKE	0.015	0.380	343.969	3.995	15.000	0.004
0505	LAKE CATHERINE	0.029	0.180	451.667	14.042	11.800	0.006
0506	LAKE CHICOT	0.162	0.450	486.000	13.722	14.800	0.069
0507	DEGRAY RESERVOIR	0.019	0.130	419.050	12.300	15.000	0.004
0508	LAKE ERLING	0.054	0.120	454.667	13.389	14.600	0.020
0509	GRAND LAKE	0.101	0.090	479.667	62.867	8.400	0.021
0510	LAKE HAMILTON	0.024	0.130	428.111	10.889	14.400	0.006
0511	MILLWOOD LAKE	0.040	0.120	466.778	14.967	9.800	0.008
0512	NIMROD LAKE	0.039	0.160	469.000	15.833	8.800	0.006
0513	NORFOLK LAKE	0.015	0.120	356.321	3.441	15.000	0.005
0514	LAKE OUACHITA	0.015	0.155	389.144	4.344	15.000	0.006
0515	TABLE ROCK LAKE	0.022	0.350	410.778	9.103	15.000	0.007
0516	GREER'S LAKE	0.012	0.140	370.875	3.762	15.000	0.004

PERCENT OF LAKES WITH HIGHER VALUES (NUMBER OF LAKES WITH HIGHER VALUES) - ARKANSAS

LAKE CODE	LAKE NAME	MEDIAN TOTAL P	MEDIAN INORG N	500-MEAN SEC	MEAN CHLORA	15-MIN DO	MEDIAN DISS ORTHO P
0501	BEAVER LAKE	63 (9)	27 (4)	67 (10)	87 (13)	40 (6)	63 (8)
0502	BLACKFISH LAKE	0 (0)	0 (0)	0 (0)	7 (1)	73 (11)	0 (0)
0503	BLUE MOUNTAIN LAKE	20 (3)	47 (7)	13 (2)	67 (10)	57 (8)	27 (4)
0504	BULL SHOALS LAKE	90 (13)	13 (2)	100 (15)	80 (12)	17 (0)	93 (13)
0505	LAKE CATHERINE	47 (7)	40 (6)	47 (7)	27 (4)	80 (12)	63 (8)
0506	LAKE CHICOT	7 (1)	7 (1)	7 (1)	33 (5)	47 (7)	7 (1)
0507	DEGRAY RESERVOIR	73 (11)	77 (11)	60 (9)	47 (7)	17 (0)	93 (13)
0508	LAKE ERLING	27 (4)	90 (13)	40 (6)	40 (6)	57 (8)	20 (3)
0509	GRAND LAKE	13 (2)	100 (15)	20 (3)	0 (0)	100 (15)	13 (2)
0510	LAKE HAMILTON	53 (8)	77 (11)	53 (8)	53 (8)	67 (10)	63 (8)
0511	MILLWOOD LAKE	33 (5)	90 (13)	33 (5)	20 (3)	87 (13)	33 (5)
0512	NIMROD LAKE	40 (6)	53 (8)	27 (4)	13 (2)	93 (14)	47 (7)
0513	NORFOLK LAKE	80 (12)	33 (5)	93 (14)	100 (15)	17 (0)	80 (12)
0514	LAKE OUACHITA	90 (13)	60 (9)	80 (12)	73 (11)	17 (0)	63 (8)
0515	TABLE ROCK LAKE	63 (9)	20 (3)	73 (11)	60 (9)	17 (0)	40 (6)
0516	GREER'S LAKE	100 (15)	67 (10)	87 (13)	93 (14)	17 (0)	93 (13)

LAKE DATA TO BE USED IN RANKINGS - MISSOURI

LAKE CODE	LAKE NAME	MEDIAN TOTAL P	MEDIAN INORG N	500-MEAN SEC	MEAN CHLORA	15-MIN DO	MEDIAN DISS ORTHO P
2901	CLEARWATER LAKE	0.017	0.150	445.000	3.567	10.400	0.004
2902	POMME DE TERRE RESERVOIR	0.043	0.275	449.928	9.443	14.800	0.008
2903	STOCKTON RESERVOIR	0.022	0.670	428.800	8.973	15.000	0.006
2904	LAKE TANEYCOMO	0.023	0.530	420.250	9.825	11.200	0.007
2905	THOMAS HILL RESERVOIR	0.082	1.040	487.889	5.787	11.200	0.011
2906	WAPPAPELLO RESERVOIR	0.033	0.105	459.667	9.642	11.000	0.004

PERCENT OF LAKES WITH HIGHER VALUES (NUMBER OF LAKES WITH HIGHER VALUES) - MISSOURI

LAKE CODE	LAKE NAME	MEDIAN TOTAL P	MEDIAN INORG N	500- MEAN SEC	MEAN CHLORA	15- MIN DO	MEDIAN DISS ORTHO P
2901	CLEARWATER LAKE	100 (5)	80 (4)	60 (3)	100 (5)	100 (5)	90 (4)
2902	POMME DE TERRE RESERVOIR	20 (1)	60 (3)	40 (2)	40 (2)	20 (1)	20 (1)
2903	STOCKTON RESERVOIR	80 (4)	20 (1)	80 (4)	60 (3)	0 (0)	60 (3)
2904	LAKE TANEYCOMO	60 (3)	40 (2)	100 (5)	0 (0)	50 (2)	40 (2)
2905	THOMAS HILL RESERVOIR	0 (0)	0 (0)	0 (0)	80 (4)	50 (2)	0 (0)
2906	WAPPAPELLO RESERVOIR	40 (2)	100 (5)	20 (1)	20 (1)	80 (4)	90 (4)